

Individualized Computation

b_1





Cover Art
The Kindergarten class of Pat Spencer at La Mesa
School.
Art Staff
ROY LIPSCHUTZ

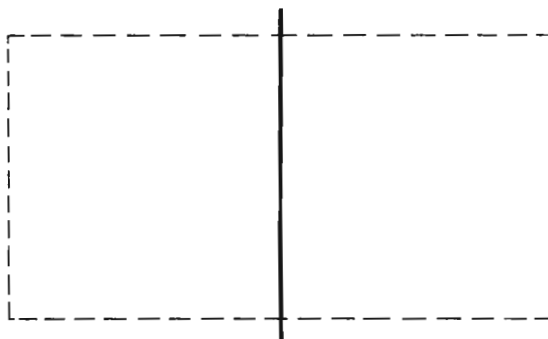
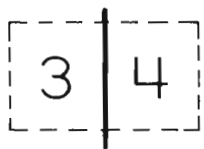
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Art and Production Manager
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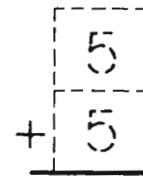
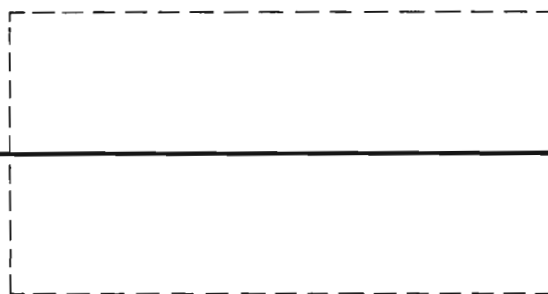
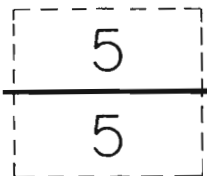
Please have counters handy.

Favor de tener listos los objetos para contar.

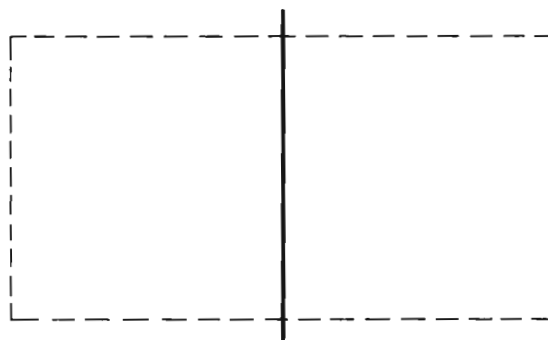
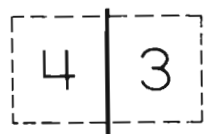


$$\underline{\quad} 3 + 4 = 7 \underline{\quad}$$

$$\underline{\quad} 3 + 4 = 7 \underline{\quad}$$

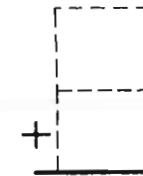
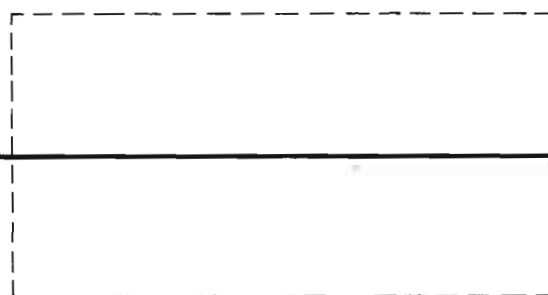
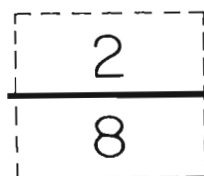


$$\begin{array}{r} 5 \\ + 5 \\ \hline 10 \end{array}$$

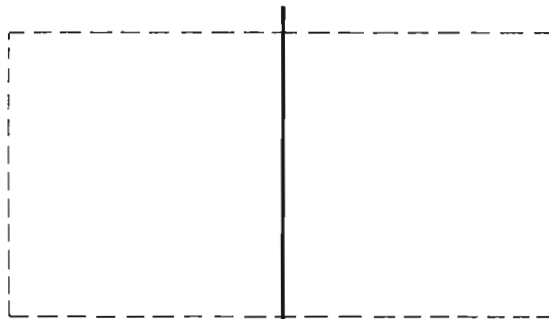
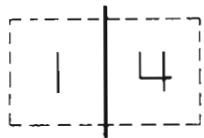


$$\underline{\quad} 4 + 3 = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

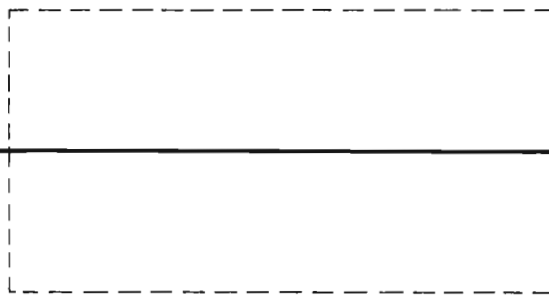
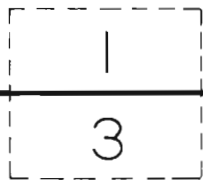


$$\begin{array}{r} 2 \\ + 8 \\ \hline \end{array}$$

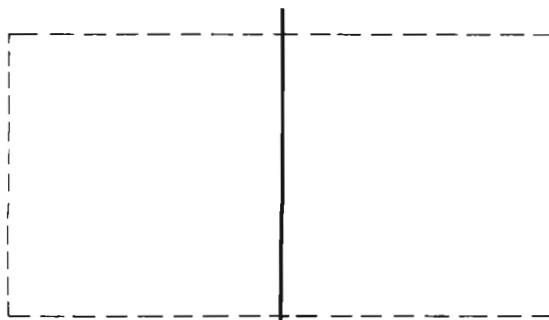
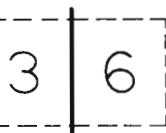
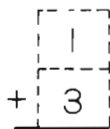


+ =

1 + 4 =

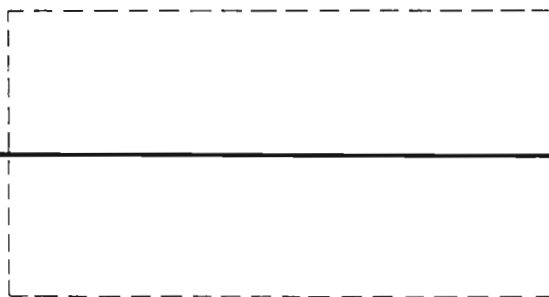
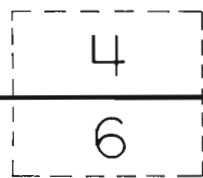


+

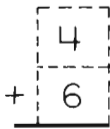


+ =

3 + 6 =



+



1	4
3	6

A.

5
9

B.

10

C.

14

A.

5
9

B.

10

C.

14

total

4	2
3	7

D.

6

E.

7

F.

--

D.

E.

--

F.

--

total

5	5
8	2

A.

A.

10
12

B.

13	7
----	---

C.

--	--

B.

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C.

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total

Please make up one of your own.

Favor de hacer su propio ejemplo.

D.

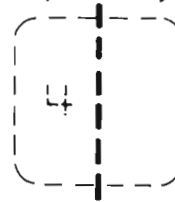
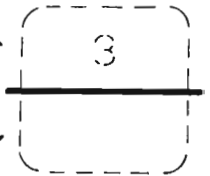
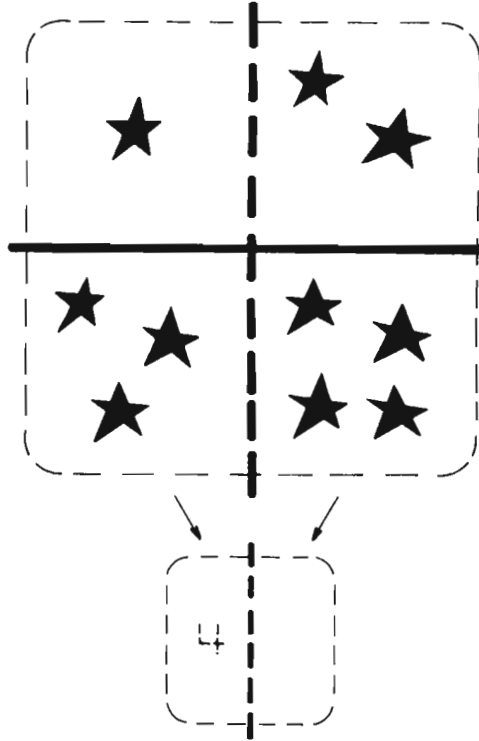
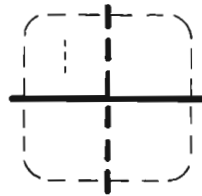
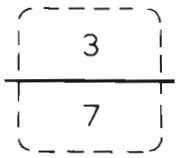
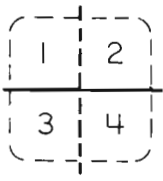
E.

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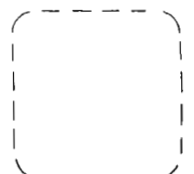
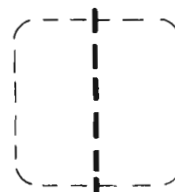
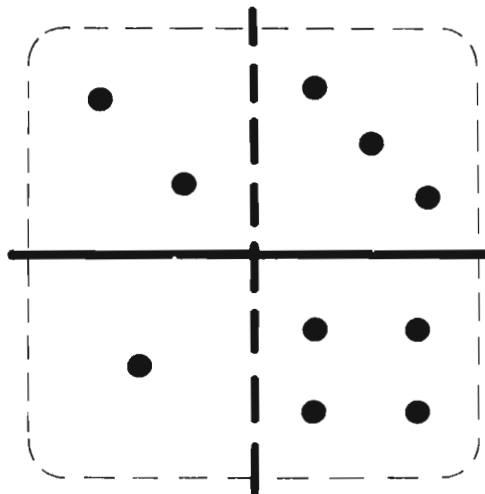
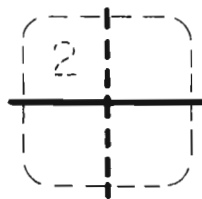
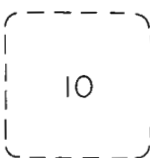
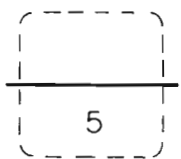
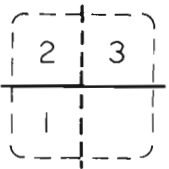
F.

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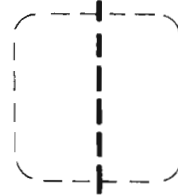
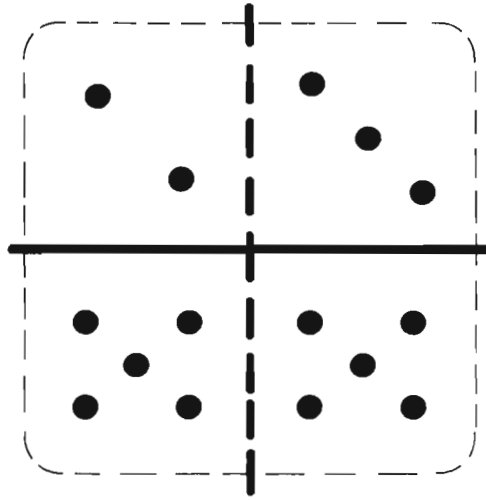
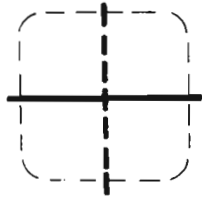
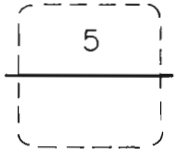
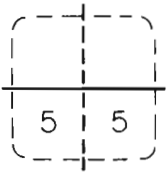
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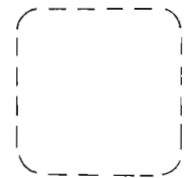
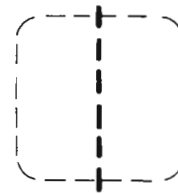
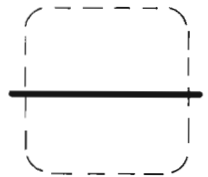
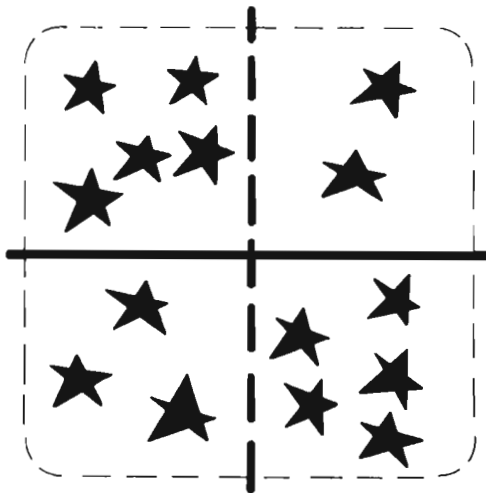
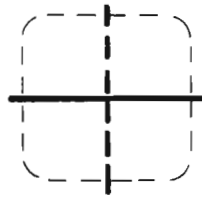
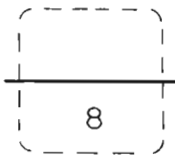
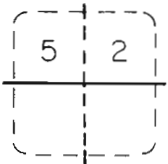
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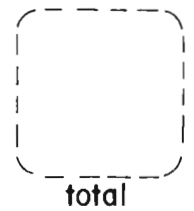
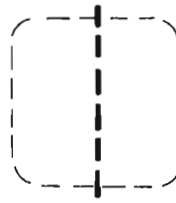
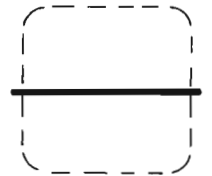
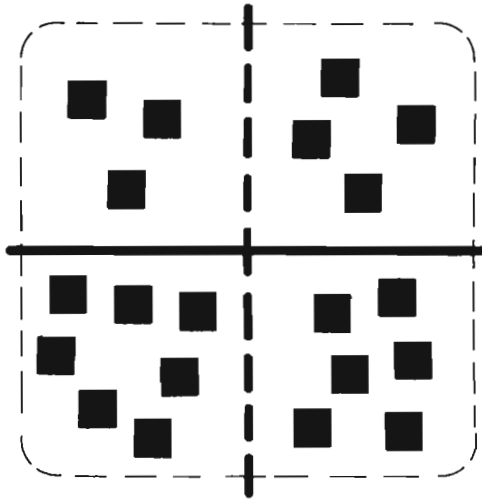
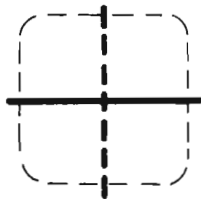
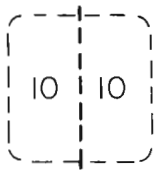
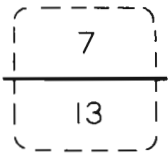
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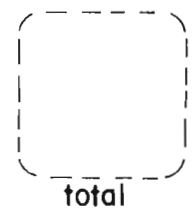
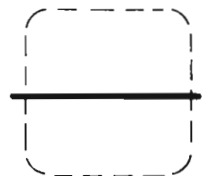
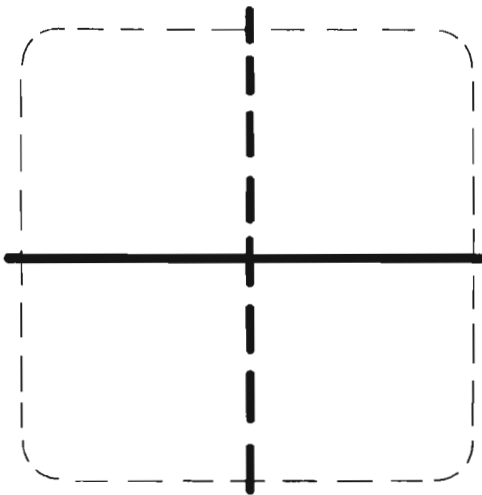
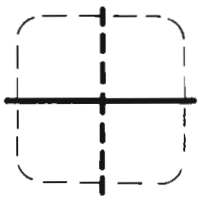
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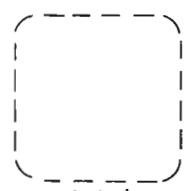
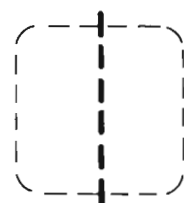
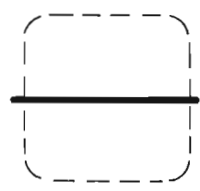
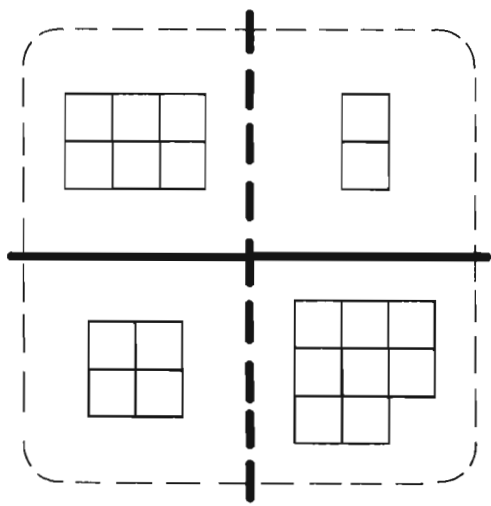
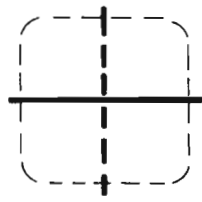
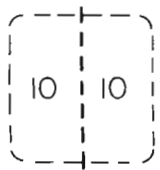
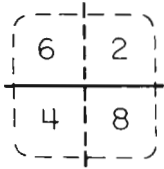


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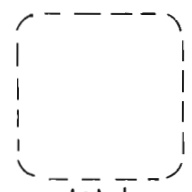
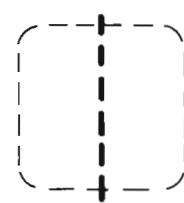
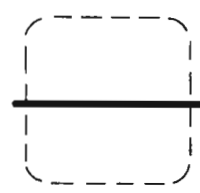
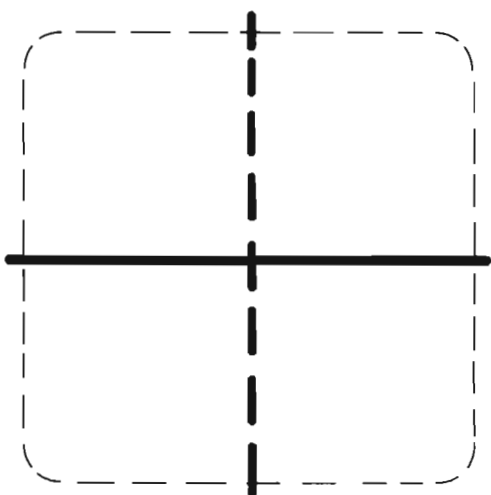
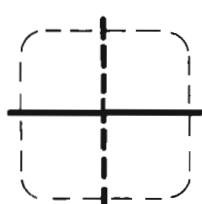
Please make up an example of your own.
Favor de hacer su propio ejemplo.



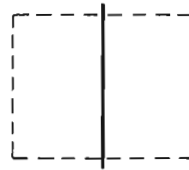
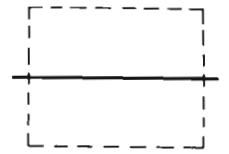
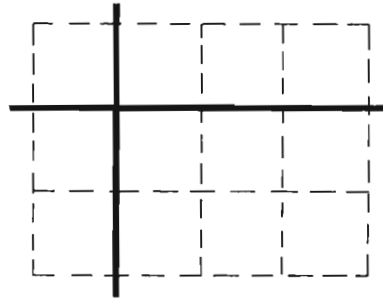
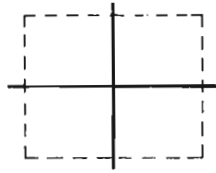
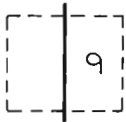
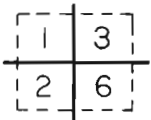


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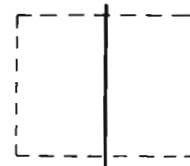
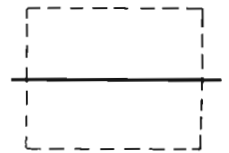
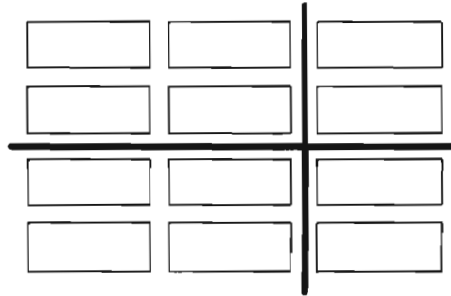
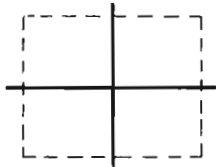
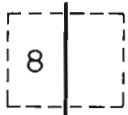
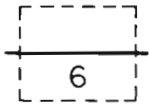
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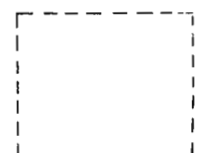
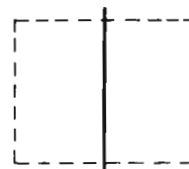
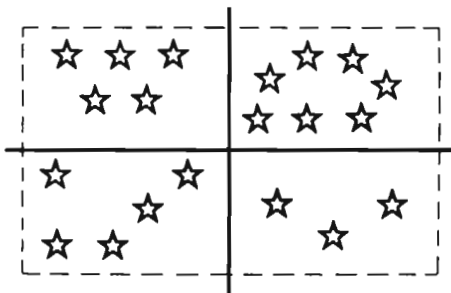
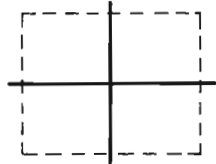
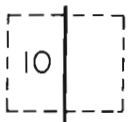
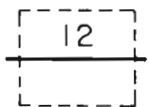
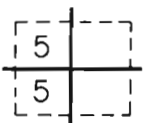
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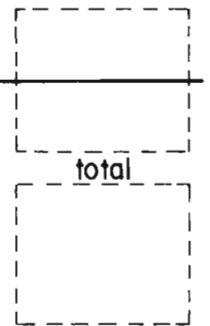
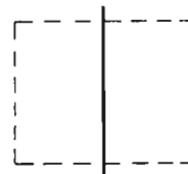
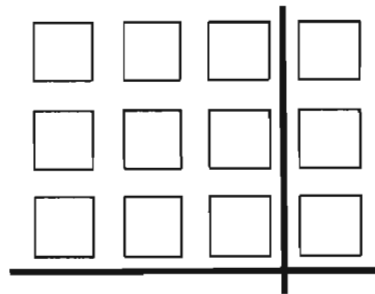
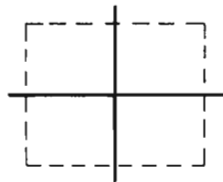
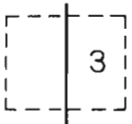
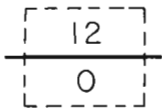
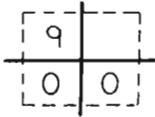
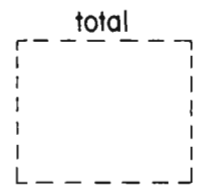
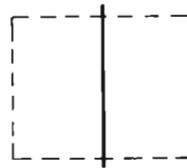
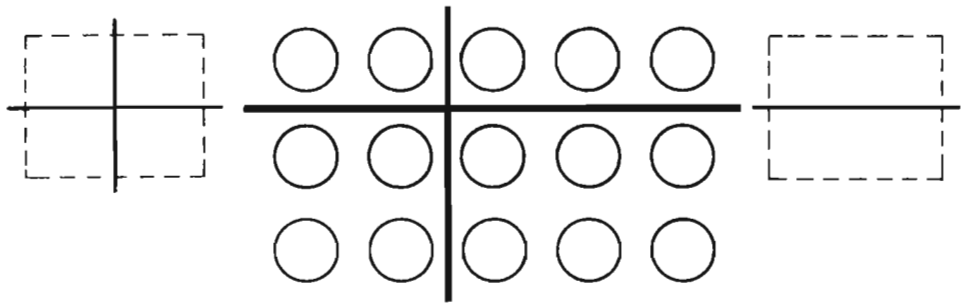
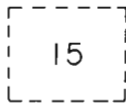
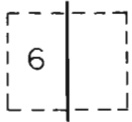
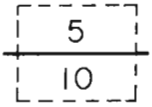
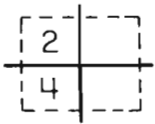
total



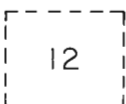
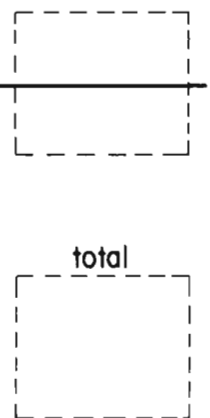
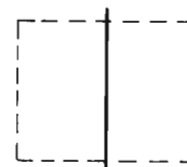
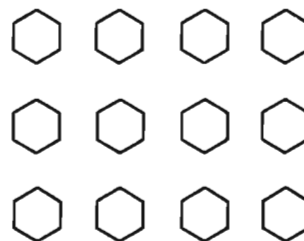
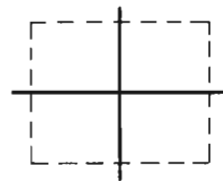
total



total



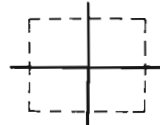
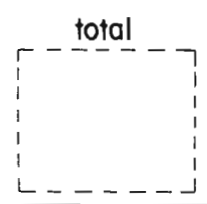
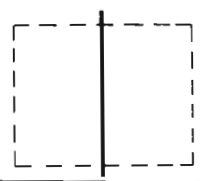
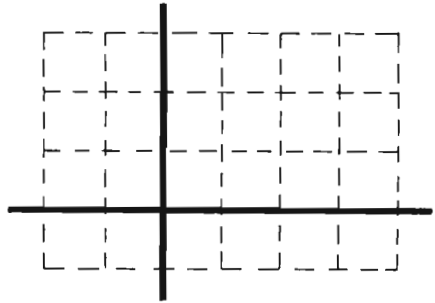
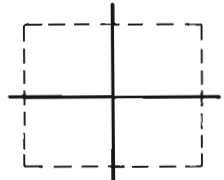
Please finish this example in your own way.
Favor de terminar este ejemplo en su propia manera.



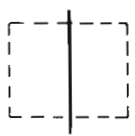
$$\frac{18}{6}$$

$$\frac{\quad}{16}$$

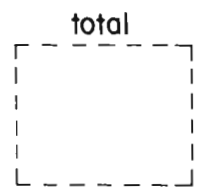
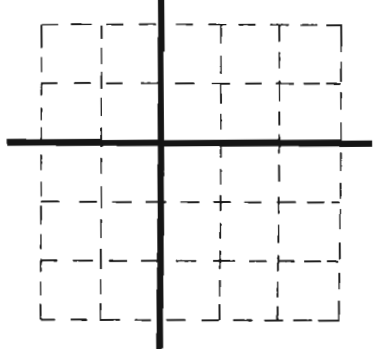
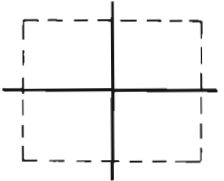
$$\frac{\quad}{24}$$



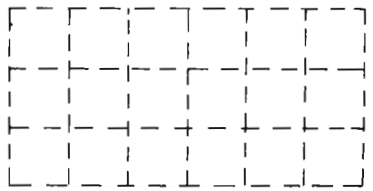
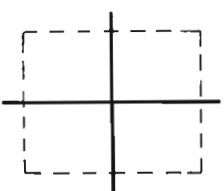
$$\frac{10}{15}$$



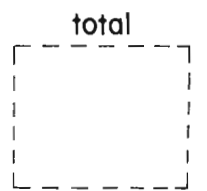
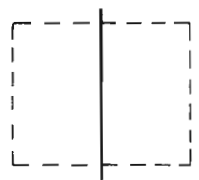
$$\frac{\quad}{25}$$



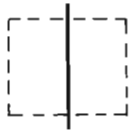
Please complete in your own way.
Favor de completarlo en su propia manera.



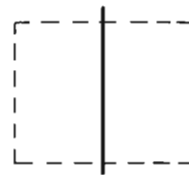
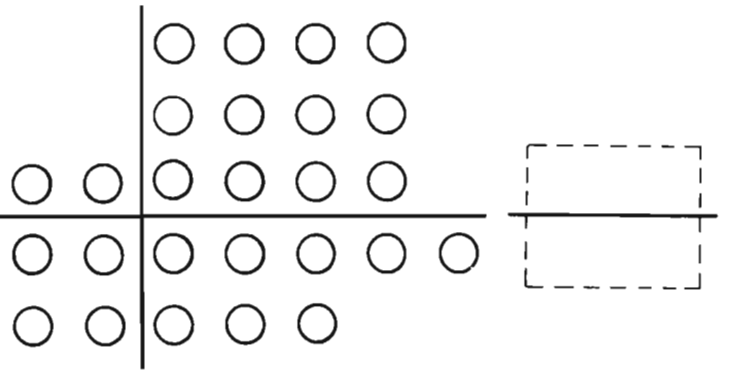
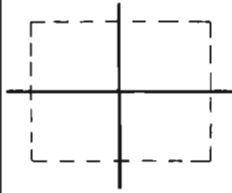
$$\frac{\quad}{18}$$



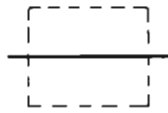
$$\begin{array}{r} 14 \\ 12 \\ \hline \end{array}$$



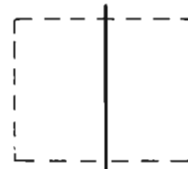
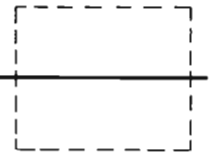
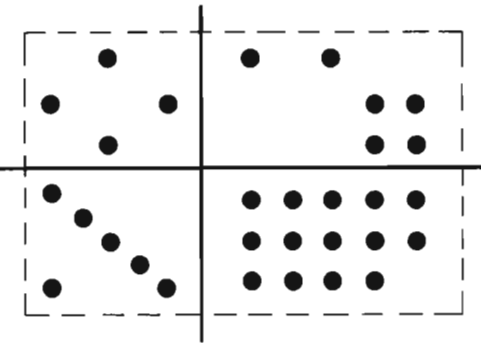
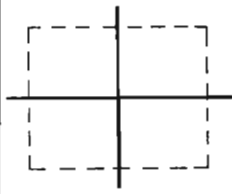
$$26$$



total



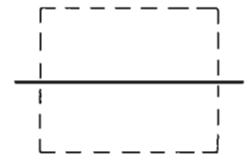
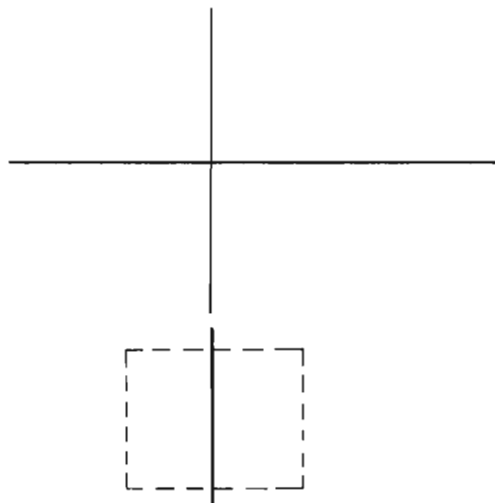
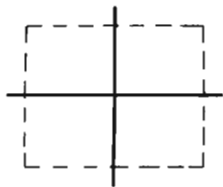
$$\begin{array}{r} 10 \\ 20 \\ \hline \end{array}$$



total

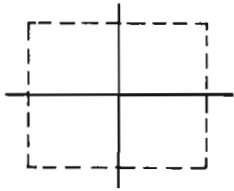
Please make up an example of your own.

Favor de hacer su propio ejemplo.

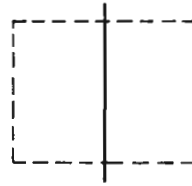
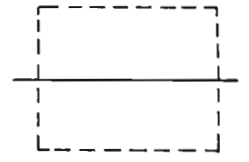
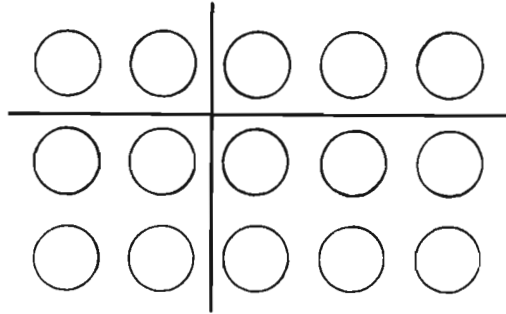


total

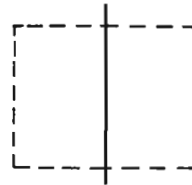
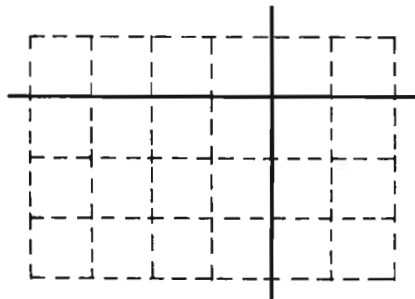
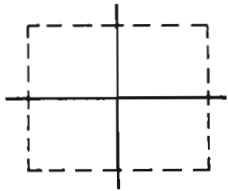
On Your Own



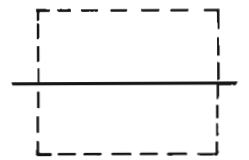
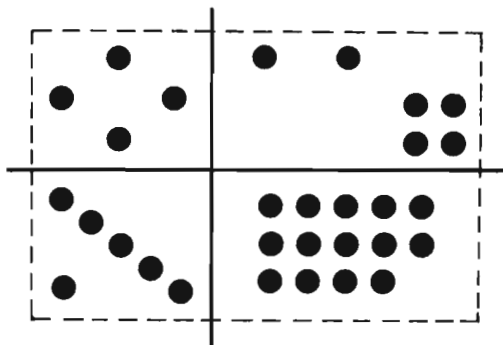
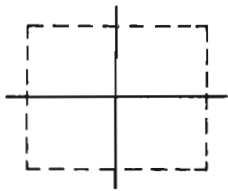
Usted Solo



total

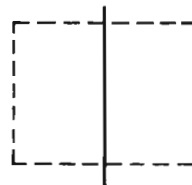


total



How do you feel?

¿Cómo se siente?



total

Dear Parent,

If your child has completed the "A" level of CDA Individualized Computation you will be familiar with these letters. You will also know that introduction to the four basic processes of addition, subtraction, multiplication and division has been made. Your child has experienced these processes mainly through arranging and rearranging "things" on a page and reporting results in the special shorthand of arithmetic.

A1 and A2 were completely non-verbal. Language is minimized in the remainder of Individualized Computation because it often gets in the way of understanding. As a dividend of this simplicity of language the program has become completely bilingual at the primary level. We believe that you and your child will appreciate this pioneering effort whether your family uses English or Spanish as a first language.

Levels B1 and B2 gradually move to depend more and more on diagrams and sketches - but still with movable counters for those needing them. Since children vary greatly in the age at which they can move comfortably from the "manipulative" to the "representational" level, don't be surprised if your child prefers to continue using counters. We anticipate this and CDA provides many additional resources for valuable math experience in manipulating real objects.

If your child expresses any hesitation about dealing with sketches such as those on the reverse page, you can help by going through the examples using counters. You can also join your child in making up similar problems with either real objects to move around or pictures to count. And every day around home there are lots of simple addition problems that you can share.

Remember, your child is an experienced and competent learner and is simply faced with a temporary problem of not understanding our adult way of writing down arithmetic shorthand. Patience and encouragement on the part of all of us will greatly aid this effort to communicate.

Sincerely,

Please have counters handy.

Favor de tener listos los objetos para contar.

5	4	10
9		

14

$$\begin{array}{r} 1 + 4 = 5 \\ 3 + 6 = 9 \end{array}$$

1	4
3	6

--	--

+	1	+	4
	3		6
	4		10

	+		=	
	+		=	

total

--	--

10	12	25
15		

5	5
7	8
12	13

5	5
7	8

--	--

+	5	+	5
	7		8

	+		=	
	+		=	

total

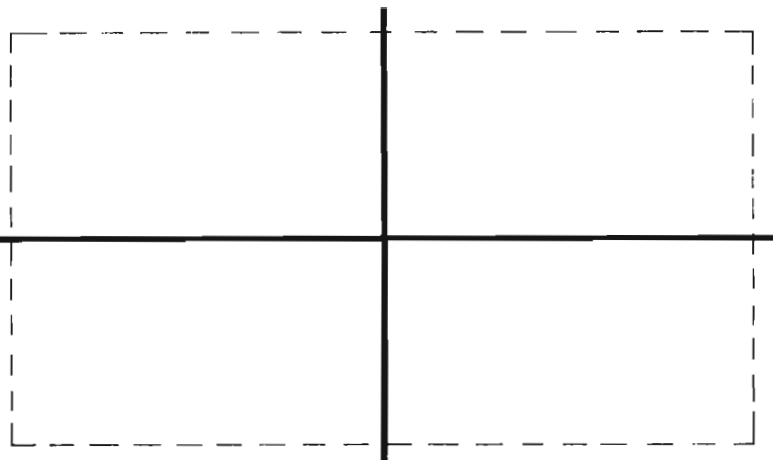
--	--

$$\begin{array}{|c|} \hline 10 \\ \hline 10 \\ \hline \end{array}$$

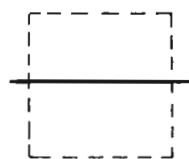
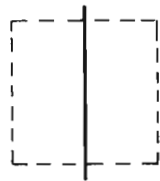
$$\begin{array}{|c|} \hline 10 \\ \hline \end{array}$$

$$\begin{array}{|c|} \hline 20 \\ \hline \end{array}$$

$$\begin{array}{|c|c|} \hline 3 & 7 \\ \hline 7 & 3 \\ \hline \end{array}$$



$$\begin{array}{|c|} \hline 3 \\ + \\ \hline 7 \\ \hline 10 \\ \hline \end{array}$$



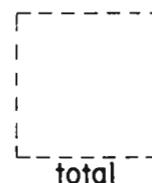
$$3 + 7 = \underline{\quad}$$

$$7 + 3 = \underline{\quad}$$

$$\underline{7} + \underline{3} = \underline{10}$$

$$\begin{array}{|c|} \hline 3 \\ + \\ \hline 7 \\ \hline \end{array}$$

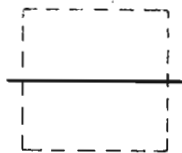
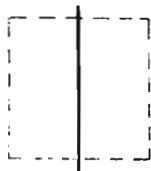
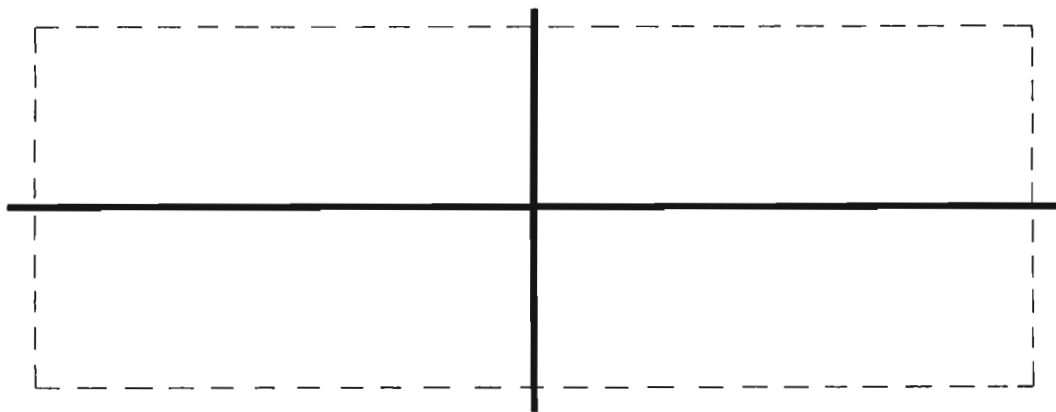
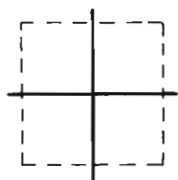
$$\begin{array}{|c|} \hline 7 \\ + \\ \hline 3 \\ \hline \end{array}$$



total

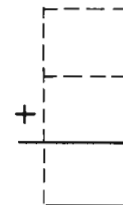
Please make up an example of your own.

Favor de hacer su propio ejemplo.



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

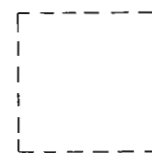
$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$



$$\begin{array}{|c|} \hline \underline{\quad} \\ + \\ \hline \underline{\quad} \\ \hline \end{array}$$

$$\begin{array}{|c|} \hline \underline{\quad} \\ + \\ \hline \underline{\quad} \\ \hline \end{array}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$



total

$$\begin{array}{|c|} \hline 13 \\ \hline 17 \\ \hline \end{array}$$

$$\begin{array}{|c|} \hline 15 \\ \hline 15 \\ \hline \end{array}$$

$$30$$

$$\begin{array}{|c|c|} \hline 6 & 7 \\ \hline 9 & 8 \\ \hline \end{array}$$

--	--

$$\begin{array}{|c|} \hline 7 \\ \hline + 8 \\ \hline 15 \\ \hline \end{array}$$

--	--

--

$6 + 7 = \underline{\quad}$

$9 + 8 = \underline{\quad}$

$9 + 8 = 17$

$$\begin{array}{|c|} \hline 7 \\ \hline + 8 \\ \hline \end{array} \quad \begin{array}{|c|} \hline 6 \\ \hline + 9 \\ \hline \end{array}$$

total

Please make up an example of your own.

Favor de hacer su propio ejemplo.

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--	--

--

$$\begin{array}{|c|} \hline + \\ \hline \\ \hline \end{array} = \underline{\quad}$$

--

$$\begin{array}{|c|} \hline \\ \hline + \\ \hline \end{array} \quad \begin{array}{|c|} \hline \\ \hline + \\ \hline \end{array}$$

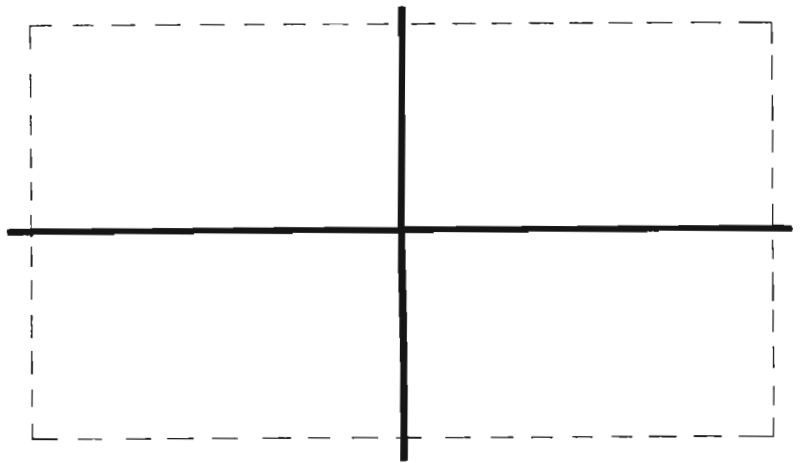
total

$$\begin{array}{r} 14 \\ \hline 16 \end{array}$$

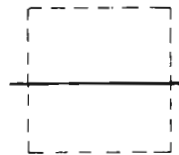
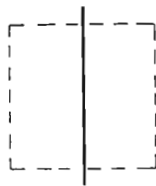
$$\begin{array}{r} 13 \\ \hline 17 \end{array}$$



$$\begin{array}{r} 6 \quad 8 \\ \hline 7 \quad 9 \end{array}$$



$$\begin{array}{r} 8 \\ + 9 \\ \hline 17 \end{array}$$



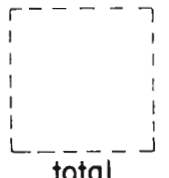
$$6 + 8 = \underline{\quad}$$

$$7 + 9 = \underline{\quad}$$

$$7 + 9 = \underline{\quad}$$

$$\begin{array}{r} 6 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 9 \\ \hline \end{array}$$



total

You may need counters.

Tal vez necesite objetos para contar.

$$\begin{array}{r} 1 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 15 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 10 \\ \hline \end{array}$$

$$1 + 4 = \underline{\quad}$$

$$3 + 6 = \underline{\quad}$$

$$4 + 10 = \underline{\quad}$$

$$5 + 5 = \underline{\quad}$$

$$7 + 8 = \underline{\quad}$$

$$12 + 3 = \underline{\quad}$$

$$3 + 7 = \underline{\quad}$$

$$7 + 3 = \underline{\quad}$$

$$10 + 10 = \underline{\quad}$$

$$\begin{array}{r} 6 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ + 7 \\ \hline \end{array}$$

$$6 + 7 = \underline{\quad}$$

$$9 + 8 = \underline{\quad}$$

$$15 + 15 = \underline{\quad}$$

$$\begin{array}{r} 7 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 13 \\ \hline \end{array}$$

•	•••	$\rightarrow 1 + 3 = 4$
•••	••	$\rightarrow 4 + 2 = 6$

1	3	4
+ 4	+ 2	+ 6
5	5	$\rightarrow 5 + 5 = 10$

Please add any missing dots.

•	•••	$\rightarrow 1 + 3 = \underline{\quad}$
••	••	$\rightarrow \underline{\quad} + \underline{\quad} = \underline{\quad}$

1		4
+ 4	+	+ 6
<u> </u>	<u> </u>	$\rightarrow 5 + \underline{\quad} = \underline{\quad}$

Favor de agregar los puntos que faltan.

••••	••••	$4 + 5 = 9$
•••	•	$3 + 1 = 4$

5		4
+ 1	+	+ 4
6	$\rightarrow 7 + \underline{\quad} = 13$	

••••	••••	$\underline{\quad} + \underline{\quad} = \underline{\quad}$
•••		$3 + 1 = \underline{\quad}$

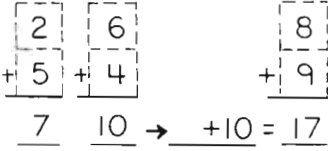
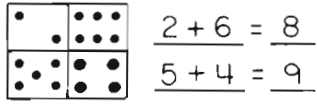
	5	
+	+ 1	+
<u> </u>	<u> </u>	$\rightarrow \underline{\quad} + \underline{\quad} = \underline{\quad}$

••••	••••	$5 + 5 = 10$
•••	•••	$2 + 3 = 5$

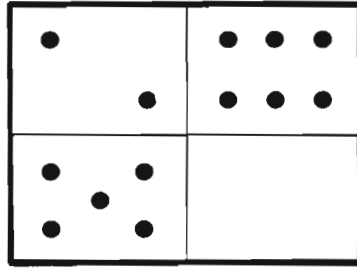
5	5	10
+ 2	+ 3	+
<u> </u>	<u> </u>	$\rightarrow + 8 = 15$

••••	••••	$\underline{\quad} + \underline{\quad} = \underline{\quad}$
		$2 + 3 = \underline{\quad}$

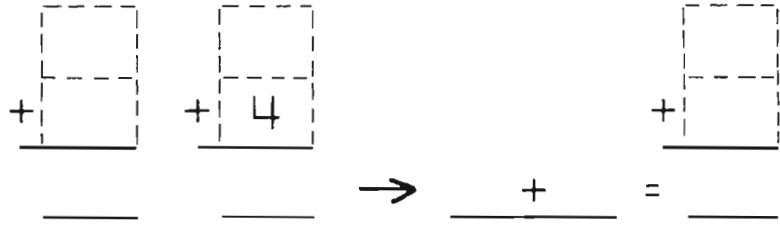
	2	3
+	+ 3	+
<u> </u>	<u> </u>	$\rightarrow \underline{\quad} + \underline{\quad} = \underline{\quad}$



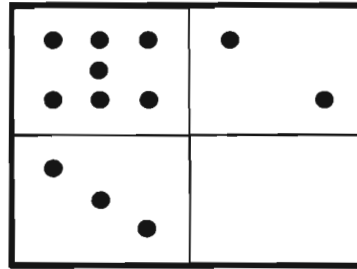
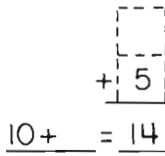
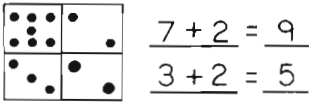
Please add any missing dots.



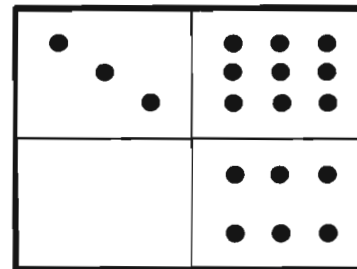
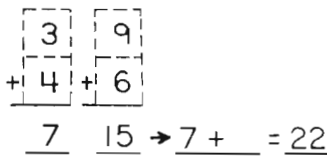
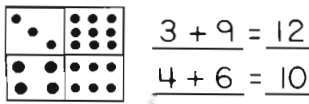
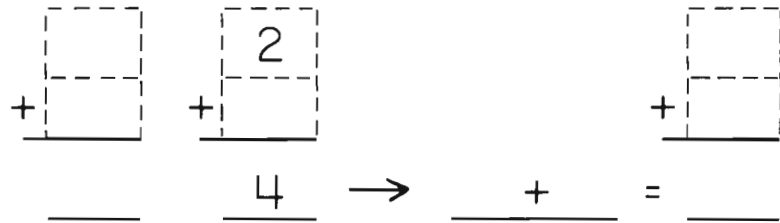
$$\begin{array}{r} \quad + \quad = \quad \\ \hline \quad + 4 \quad = \quad \end{array}$$



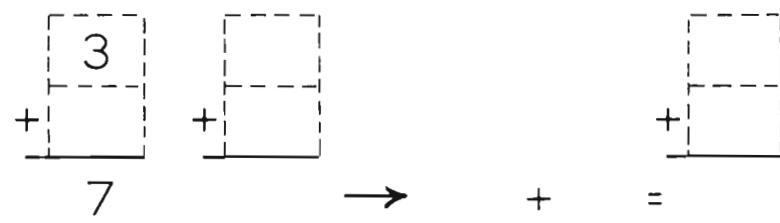
Favor de agregar los puntos que falten.

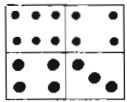


$$\begin{array}{r} \quad + \quad = \quad \\ \hline 3 + \quad = 5 \end{array}$$



$$\begin{array}{r} \quad + \quad = \quad \\ \hline \quad + 6 \quad = 10 \end{array}$$



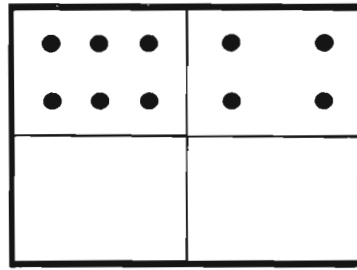


$6 + 4 = 10$

$4 + 3 = 7$

$$\begin{array}{r} 10 \\ + 7 \\ \hline 17 \end{array}$$

Please add any missing dots.



$\underline{\quad} + \underline{\quad} = \underline{\quad}$

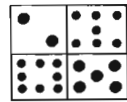
$\underline{\quad} + \underline{\quad} = \underline{7}$

$$\begin{array}{r} 6 \\ + \underline{\quad} \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + \underline{\quad} \\ \hline \end{array}$$

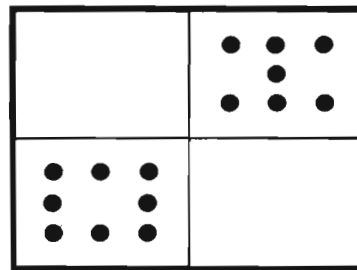
$$\begin{array}{r} \underline{\quad} \\ + \underline{\quad} \\ \hline \end{array}$$

$\underline{10} \quad \underline{7} \rightarrow \underline{\quad} + \underline{\quad} = \underline{\quad}$



$$\begin{array}{r} \underline{\quad} \\ + 8 \\ \hline 10 \end{array} \quad \begin{array}{r} 7 \\ + \underline{\quad} \\ \hline 12 \end{array} \rightarrow \begin{array}{r} \underline{\quad} \\ + \underline{\quad} \\ \hline 22 \end{array}$$

Favor de agregar los puntos que faltan.



$\underline{\quad} + 7 = \underline{9}$

$8 + \underline{\quad} = \underline{13}$

$$\begin{array}{r} \underline{\quad} \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + \underline{\quad} \\ \hline \end{array}$$

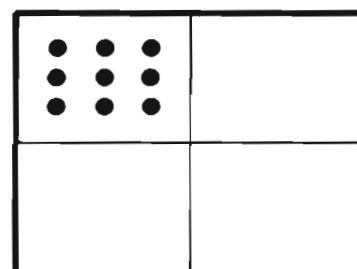
$$\begin{array}{r} \underline{\quad} \\ + \underline{\quad} \\ \hline \end{array}$$

$\underline{10} \quad \underline{12} \rightarrow \underline{\quad} + \underline{\quad} = \underline{\quad}$

$9 + 1 = 10$

$5 + \underline{\quad} = 10$

$$\begin{array}{r} 9 \\ + 5 \\ \hline 14 \end{array} \quad \begin{array}{r} 1 \\ + \underline{\quad} \\ \hline 6 \end{array} \rightarrow \begin{array}{r} \underline{\quad} \\ + \underline{\quad} \\ \hline \end{array}$$



$9 + \underline{\quad} = \underline{10}$

$\underline{\quad} + \underline{\quad} = \underline{10}$

$$\begin{array}{r} 9 \\ + \underline{\quad} \\ \hline \end{array}$$

$$\begin{array}{r} \underline{\quad} \\ + \underline{\quad} \\ \hline \end{array}$$

$$\begin{array}{r} \underline{\quad} \\ + \underline{\quad} \\ \hline \end{array}$$

$\underline{14} \quad \underline{6} \rightarrow \underline{\quad} + \underline{\quad} = \underline{\quad}$

Please add any missing dots.

Favor de agregar los puntos que falten.

	$3 + 7 = 10$
	$5 + 9 = 14$

$$\underline{\quad} + 7 = \underline{10}$$

$$\underline{\quad} + \underline{\quad} = \underline{14}$$

$\begin{array}{r} 3 \\ + 5 \\ \hline 8 \end{array}$	$\begin{array}{r} 7 \\ + 9 \\ \hline 16 \end{array}$	$\begin{array}{r} \\ + 14 \\ \hline 24 \end{array}$
---	--	---

$\begin{array}{r} \\ + 5 \\ \hline 8 \end{array}$	$\begin{array}{r} \\ + \\ \hline 16 \end{array}$	$\begin{array}{r} \\ + \\ \hline \end{array}$
---	--	---

$\rightarrow \quad \underline{\quad} + \underline{\quad} = \underline{\quad}$

$$\begin{array}{r} 3 + 3 = 6 \\ 2 + 6 = 8 \end{array}$$

$$\underline{3} + \underline{\quad} = \underline{6}$$

$$\underline{\quad} + \underline{\quad} = \underline{8}$$

$\begin{array}{r} 3 \\ + 2 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ + 6 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ + \\ \hline \end{array}$
---	---	---

$\rightarrow 5 + \underline{\quad} = \underline{\quad}$

$\begin{array}{r} \\ + \\ \hline 5 \end{array}$	$\begin{array}{r} \\ + \\ \hline 9 \end{array}$	$\begin{array}{r} \\ + \\ \hline \end{array}$
---	---	---

$\rightarrow \quad \underline{5} \quad \underline{9} \quad \rightarrow \quad \underline{\quad} + \underline{\quad} = \underline{\quad}$

You may need counters.

Tal vez necesite objetos para contar.

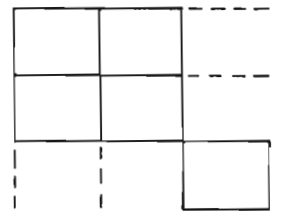
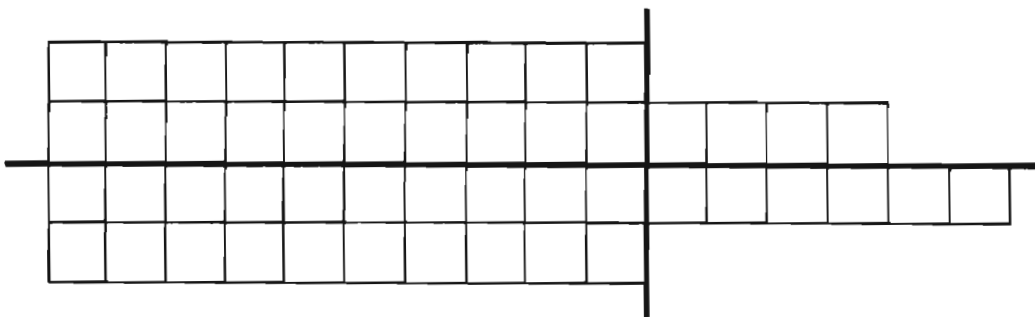
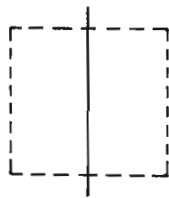
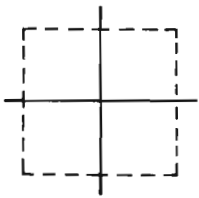
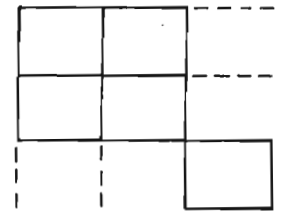
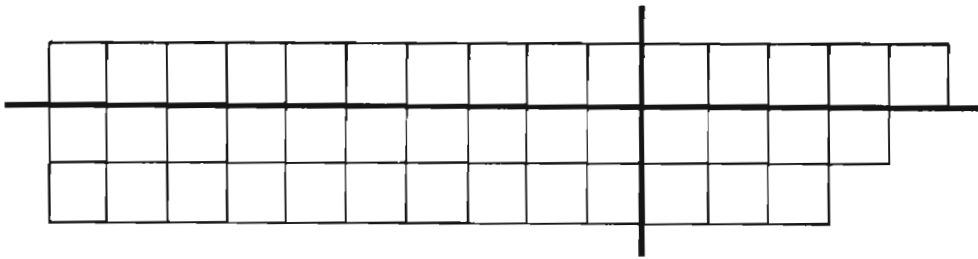
$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ + 4 \\ \hline \end{array}$	$5 + 5 = \underline{\quad}$
		$7 + 6 = \underline{\quad}$
		$4 + 5 = \underline{\quad}$

$\begin{array}{r} 7 \\ + 3 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ + \\ \hline 4 \end{array}$	$5 + 4 = \underline{\quad}$
		$3 + \underline{\quad} = \underline{5}$
		$\underline{\quad} + 6 = \underline{10}$

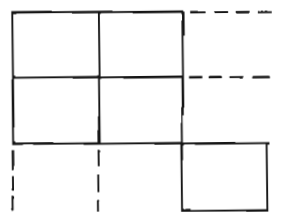
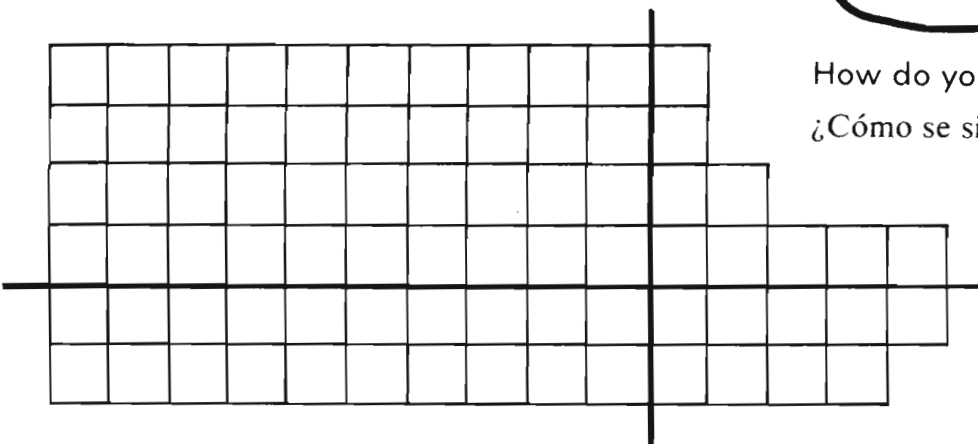
$\begin{array}{r} 4 \\ + \\ \hline 7 \end{array}$	$\begin{array}{r} \\ + 5 \\ \hline 6 \end{array}$	$9 + 5 = \underline{\quad}$
		$\underline{\quad} + 7 = \underline{9}$
		$5 + \underline{\quad} = \underline{10}$

$\begin{array}{r} 5 \\ + \\ \hline 14 \end{array}$	$\begin{array}{r} \\ + 14 \\ \hline 24 \end{array}$	$\underline{\quad} + 5 = \underline{8}$
		$7 + \underline{\quad} = \underline{16}$
		$\underline{\quad} + 7 = \underline{10}$

On Your Own
Usted Solo



How do you feel?
¿Cómo se siente?



Dear Parent,

In recent days your child has been developing increasing skill in solving arithmetic problems that add in two directions. We have also presented the problem of finding a solution by filling in missing dots on dominoes.

You might enjoy joining in some problem making and solving of the sort shown on the other side - don't hesitate to use counters if it feels more comfortable to your child. This step with diagrams is often difficult for a child. It becomes much more obvious with counters.

You will notice that we have been using a lot of boxes of various sizes placed in different positions on the page. These boxes are an important part of an orderly move from dealing with "things" that can be moved around experimentally to handling pictures of "things." Finally, we'll deal just with abstract numbers to represent the real objects and pictures. Your child already knows a great deal of arithmetic. This process of adding across and up and down will finally lead to skill in communicating this knowledge.

Dominoes (with numbers up to 6) is a beneficial and fun game for children at this point. And any kitchen game where you can say "How many more do we need?" makes the whole process become more meaningful.



An old CDA adage might be worth mentioning at this point. "When in doubt, count. When not in doubt, don't count." As children get weary of the tiresome process of one-to-one counting they will begin looking for shortcuts. That's what arithmetic is really all about. If we tune in and really listen we'll jointly discover the right time to offer help with shortcuts.

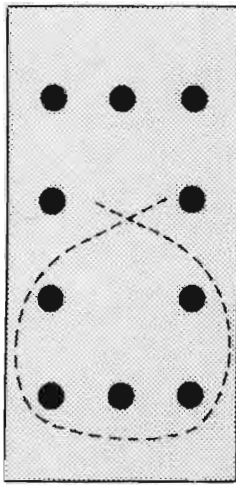
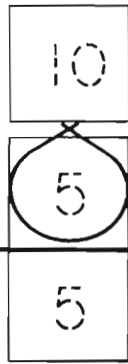
To be more specific: if you sense that your child is getting tired of counting 6 beans and 4 beans to find 10 then maybe a good time has arrived to start testing each other on some simple addition combinations. But don't rush it. Better to wait for a clear call for help than to push a child too fast. Every child operates at an individual pace, and knows that pace better than you or I.

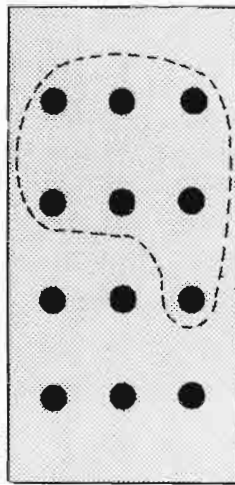
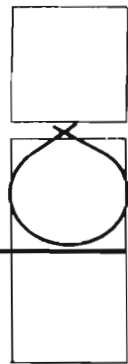
Sincerely,


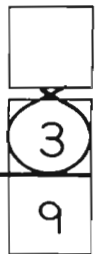
All together and "IN and OUT "

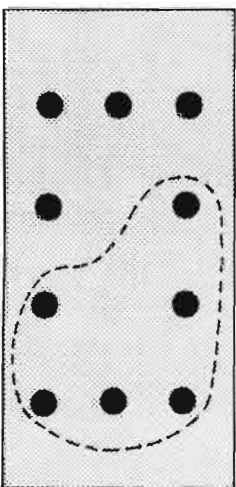
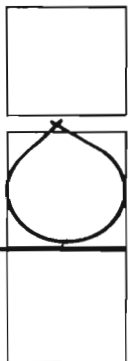
Todos juntos y "DENTRO y AFUERA"

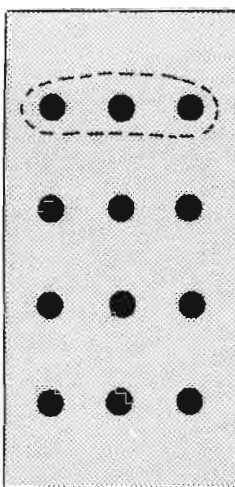
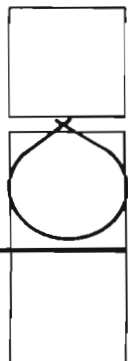
A.  A. 



A.  A.  all
in
out

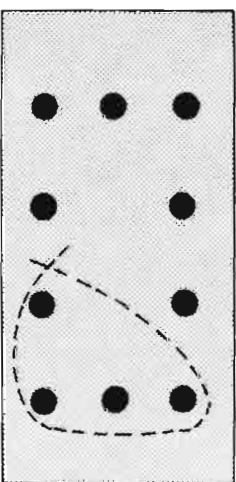
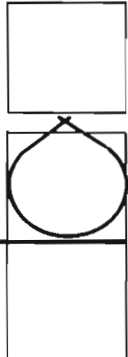
B.  B.  todos
dentro
afuera

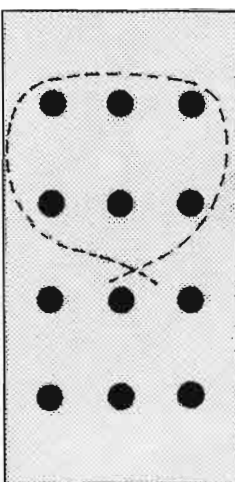
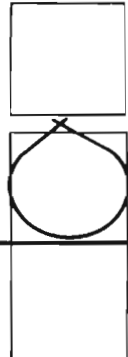
C.  C. 

C.  C. 

D.  D. 


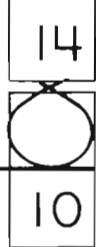
E.  E. 

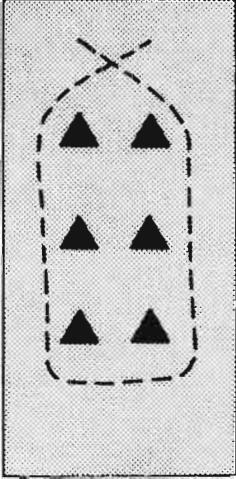
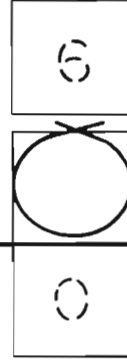
E.  E. 

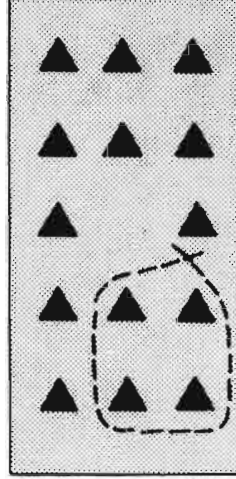
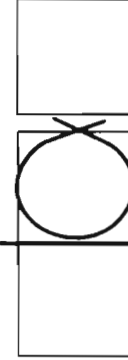
F.  F. 



All together and "IN and OUT."

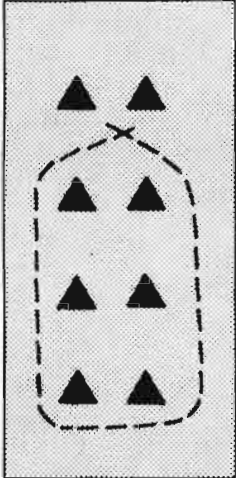
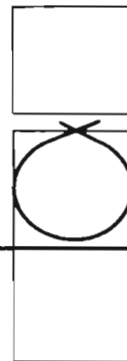
Todos juntos y "DENTRO y AFUERA"

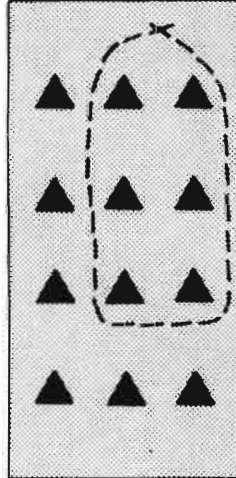
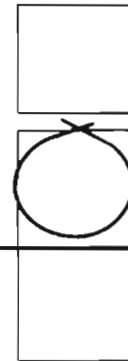
A.  A.  B.

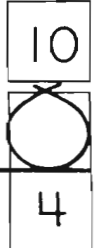

A.  A.  all
in
out

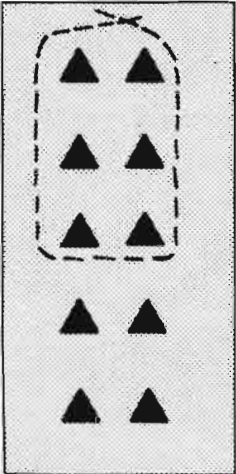
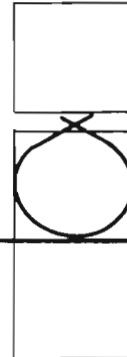
B.  B.  todos
dentro
afuera

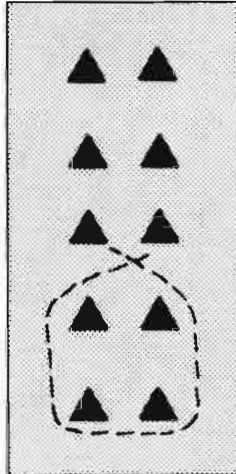
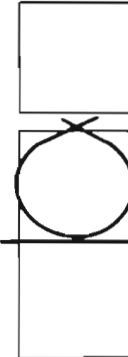
C.  C.  D.

C.  C. 

D.  D. 

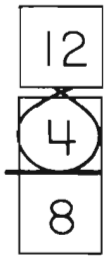
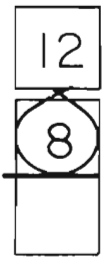
E.  E.  F.

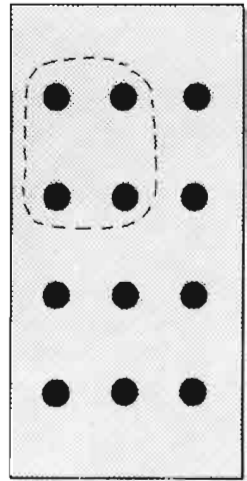
E.  E. 

F.  F. 

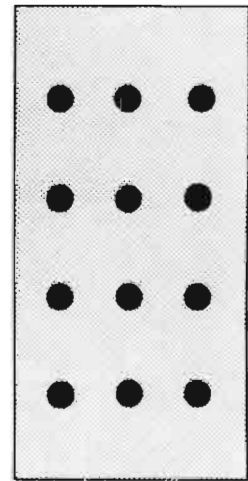
All together and "IN and OUT."

Todos juntos y "DENTRO y AFUERA"

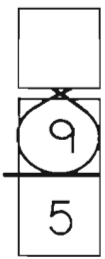
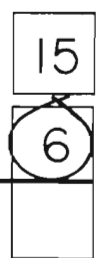
A.  A.  B.

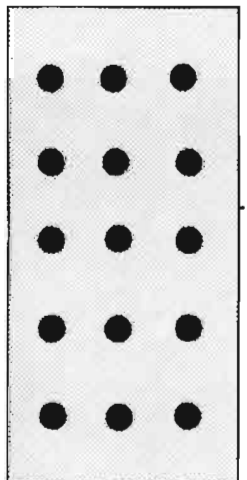


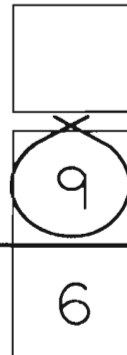
A. all
4 in
8 out

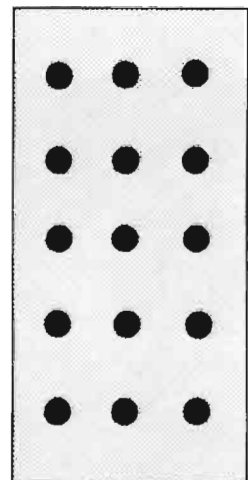



B. todos
8 dentro
afuera


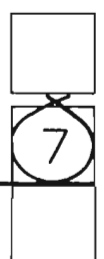
C.  C.  D.

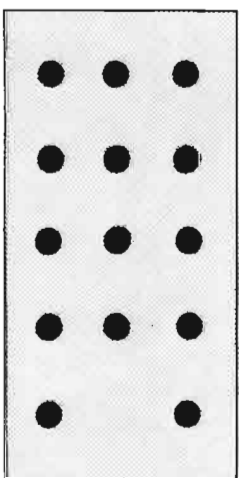


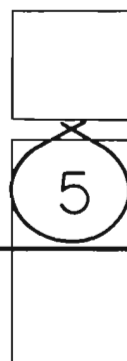
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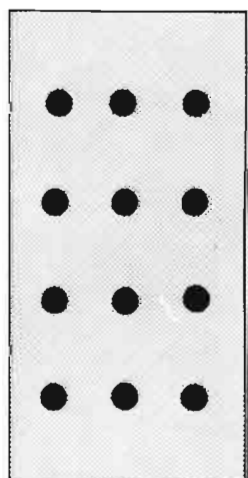


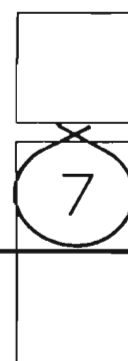
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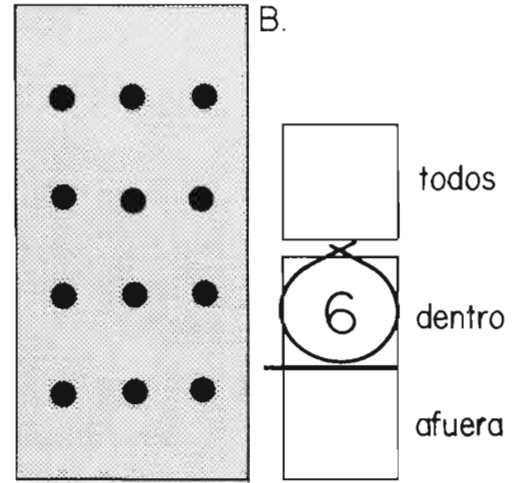
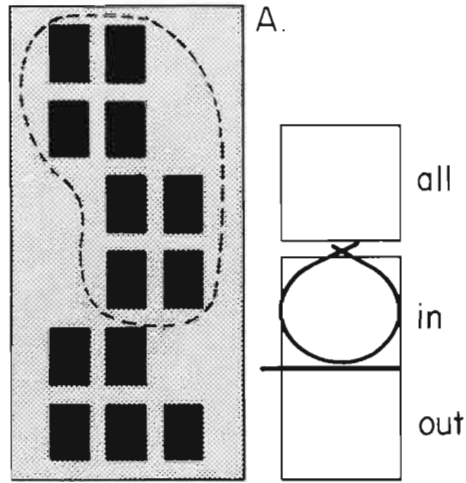
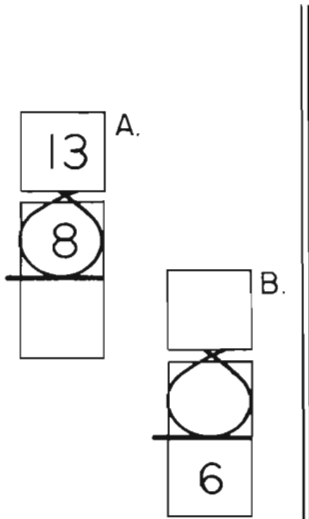
E.  E.  F.



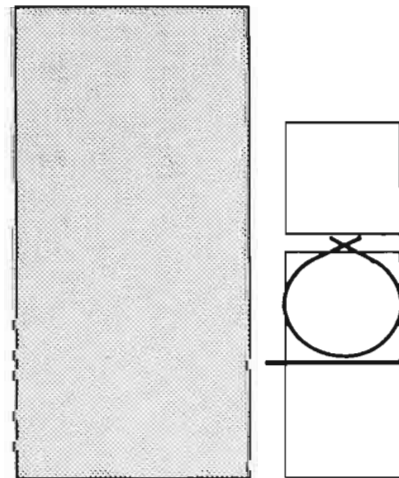
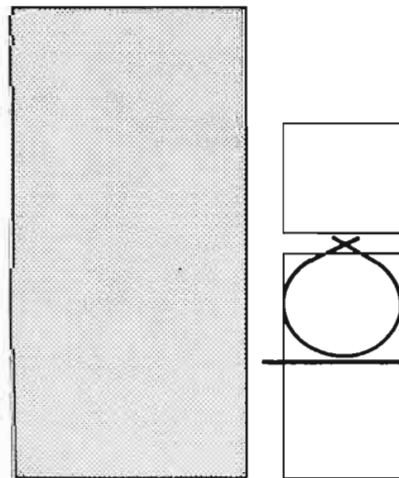
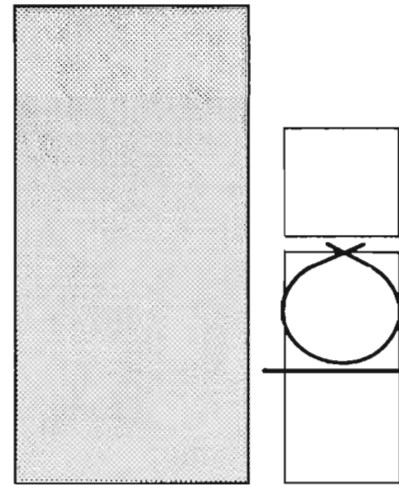
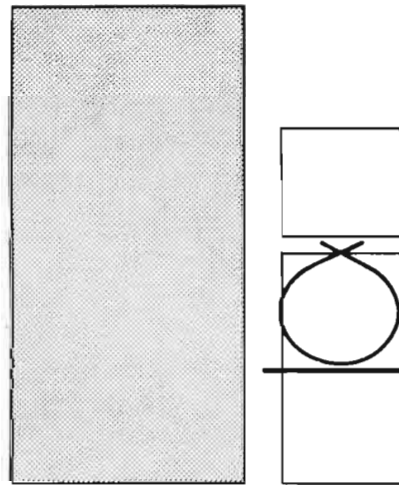
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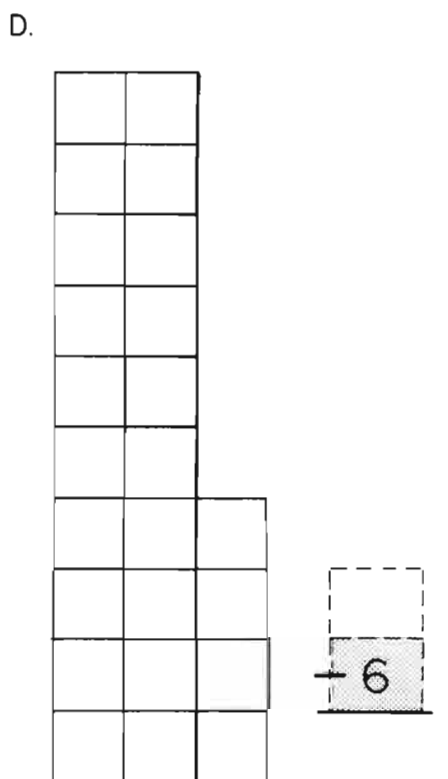
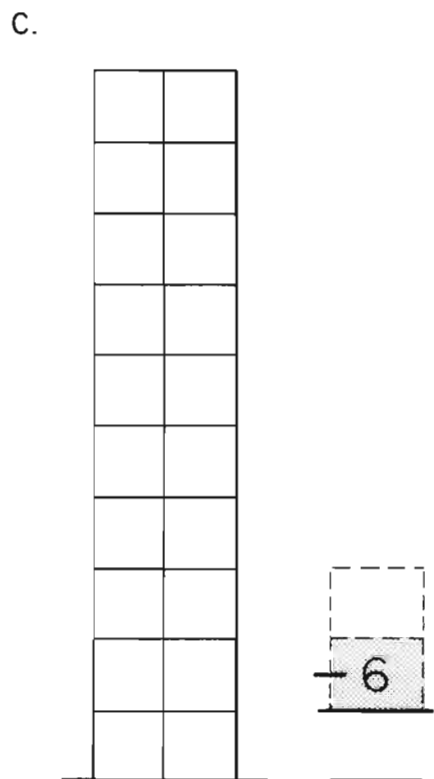
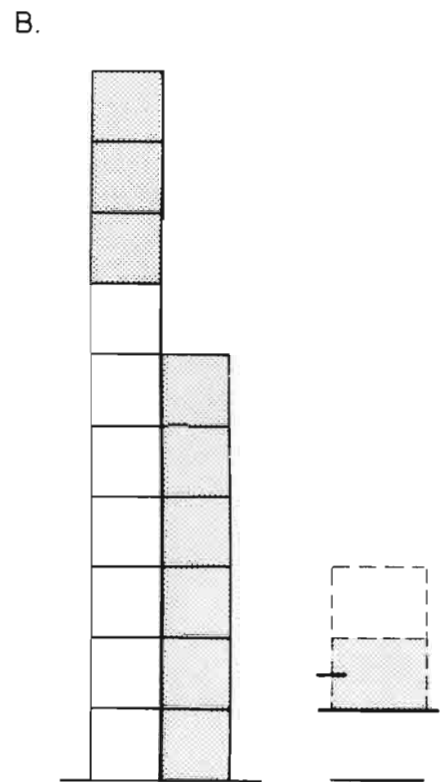
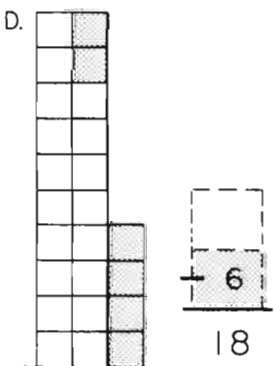
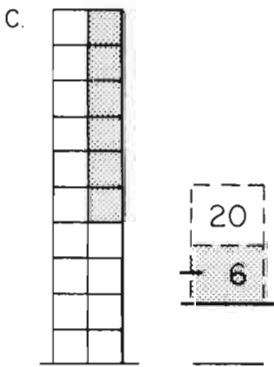
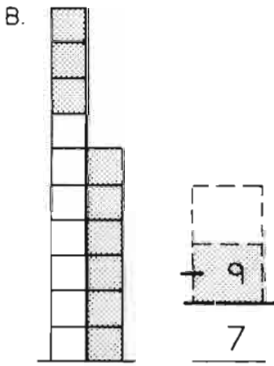
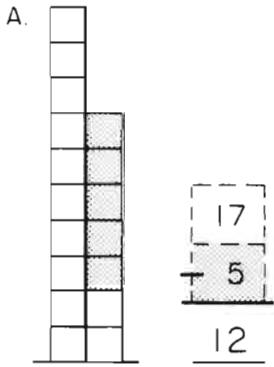


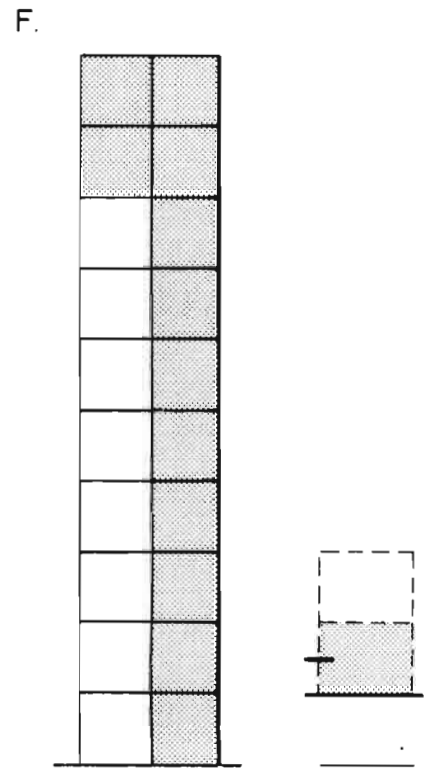
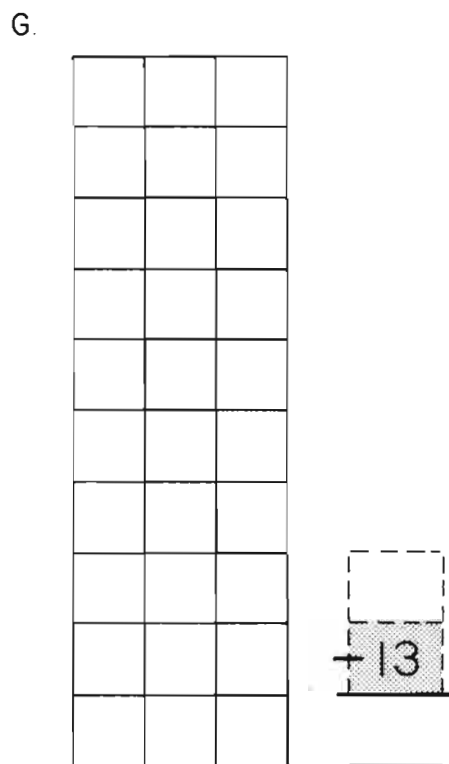
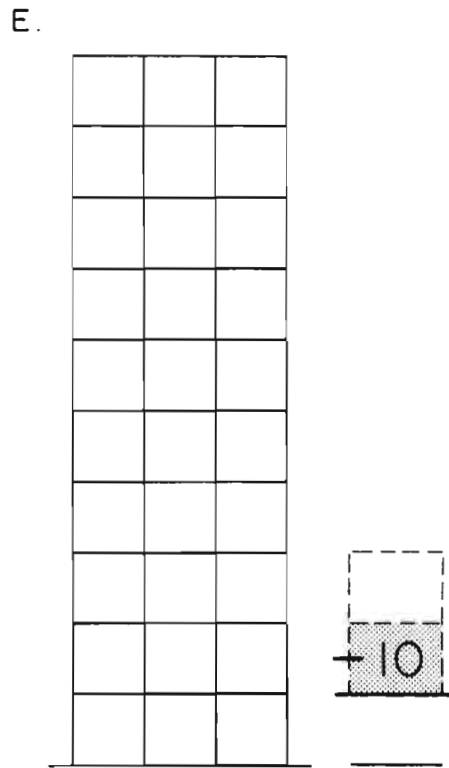
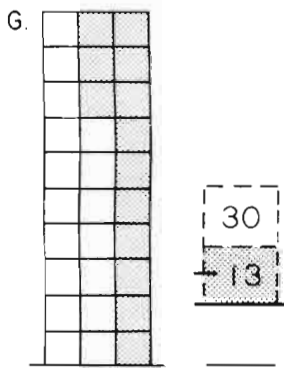
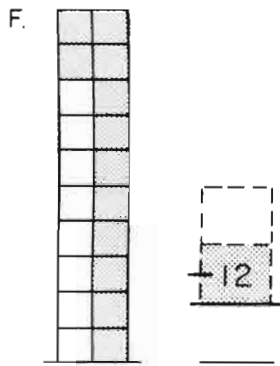
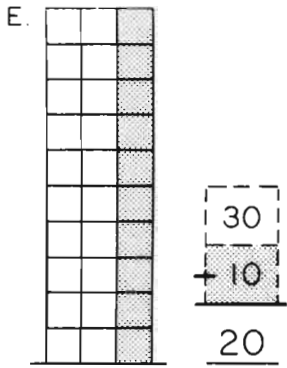
F. 



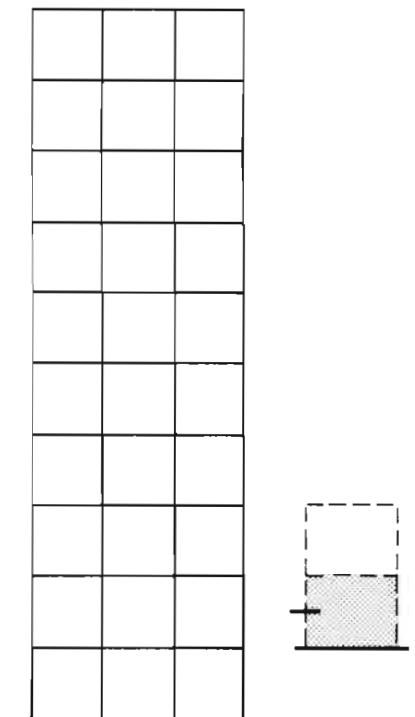
Please make up your own examples.
 Favor de hacer ejemplos suyos.



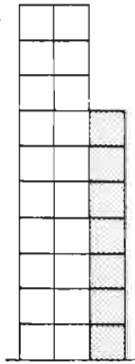




Please make up your own.
Favor de hacer uno suyo.

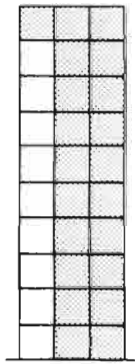


H.



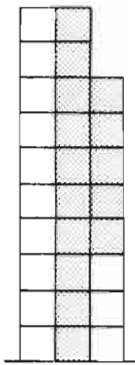
$$\begin{array}{r} 27 \\ + 7 \\ \hline 20 \end{array}$$

I.



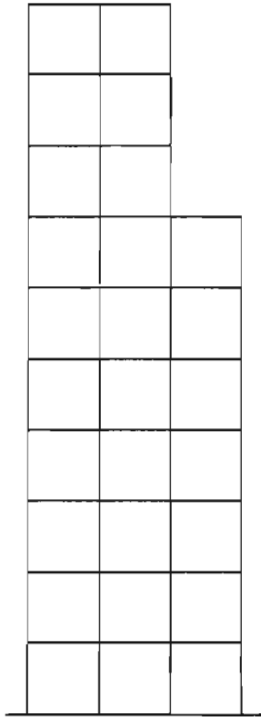
$$\begin{array}{r} 30 \\ + 21 \\ \hline \end{array}$$

J.



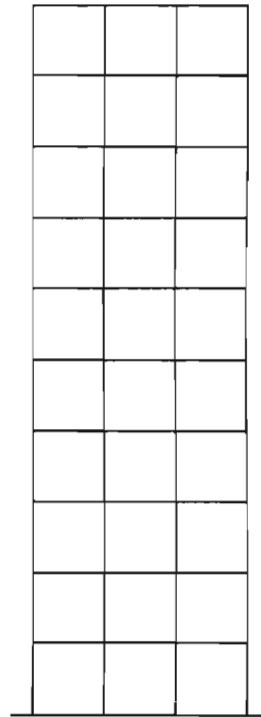
$$\begin{array}{r} 28 \\ + 15 \\ \hline \end{array}$$

H.



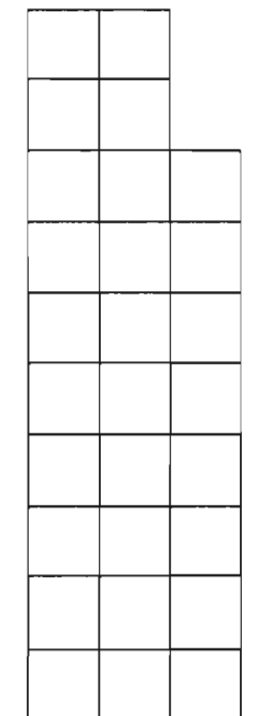
$$\begin{array}{r} \\ + 7 \\ \hline \end{array}$$

I.



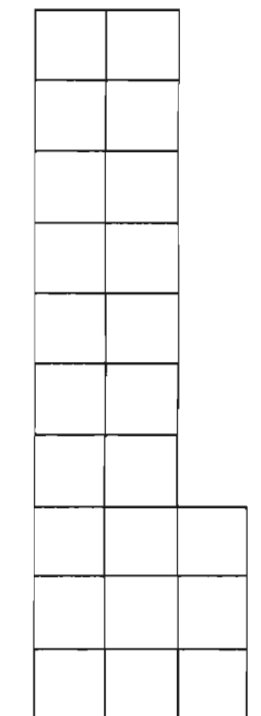
$$\begin{array}{r} \\ + 21 \\ \hline \end{array}$$

J.

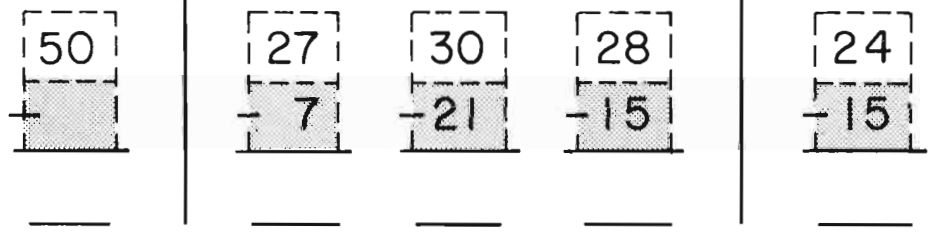
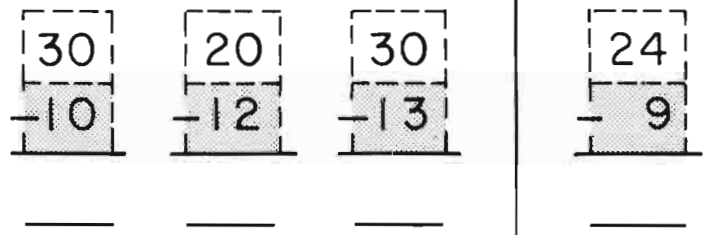
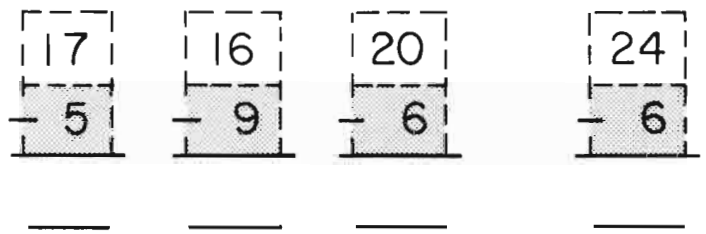
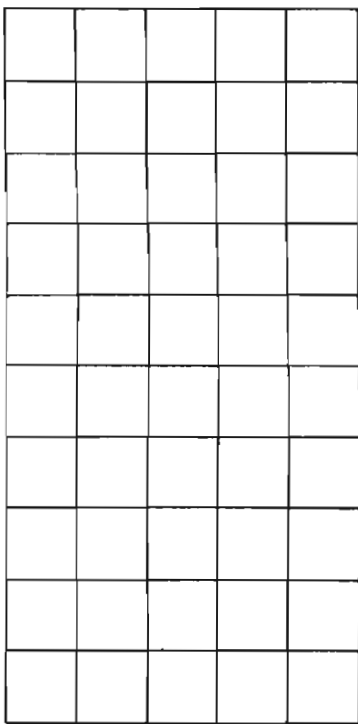
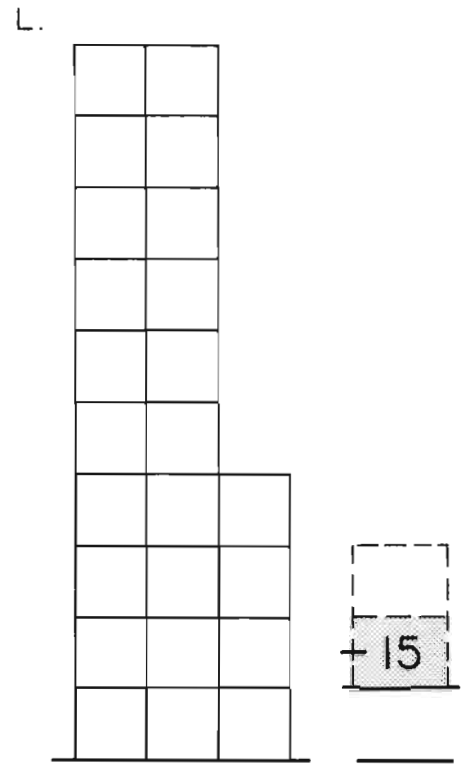
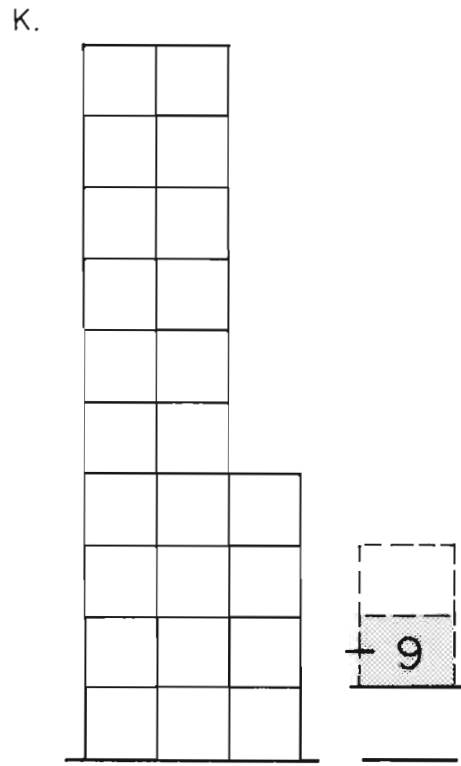
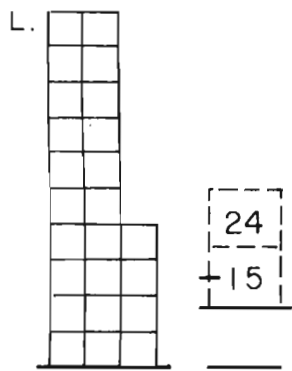
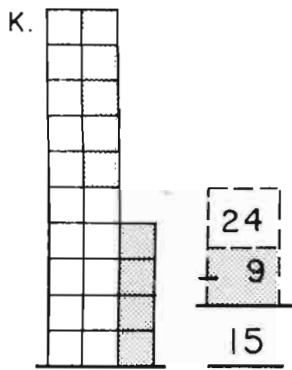


$$\begin{array}{r} \\ + 15 \\ \hline \end{array}$$

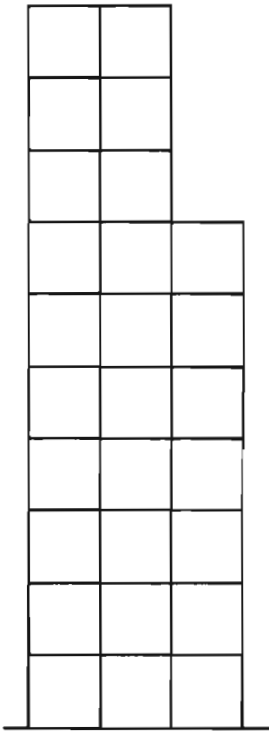
Please make up your own.
Favor de hacer uno suyo.



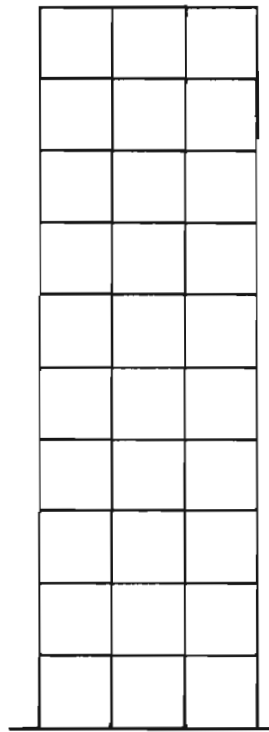
$$\begin{array}{r} \\ + \\ \hline \end{array}$$



On Your Own
Usted Solo



$$\begin{array}{r} \\ - 7 \\ \hline \end{array}$$

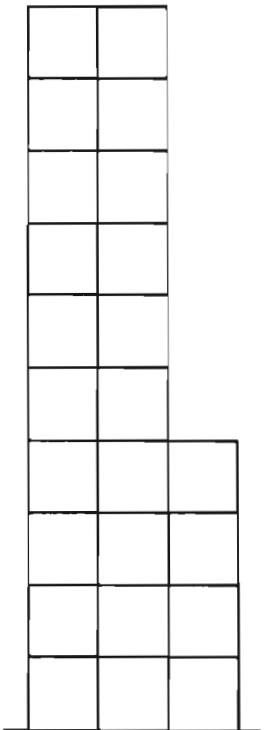


$$\begin{array}{r} \\ - 21 \\ \hline \end{array}$$

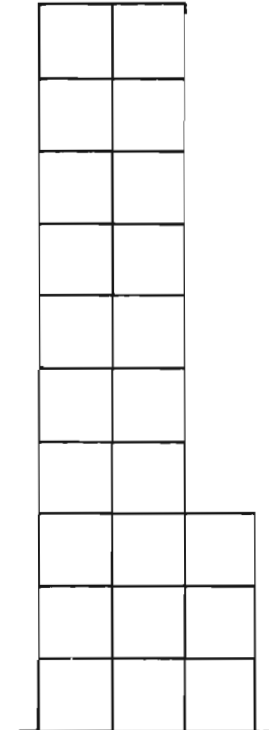
$$\begin{array}{r} 27 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ - 3 \\ \hline \end{array}$$



$$\begin{array}{r} \\ - 15 \\ \hline \end{array}$$



$$\begin{array}{r} \\ - 9 \\ \hline \end{array}$$



How do you feel?
¿Cómo se siente?

$$\begin{array}{r} 30 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ - 10 \\ \hline \end{array}$$

Dear Parent,

Both subtraction and "tens" are now getting the attention of your child. Although we are continuing to move toward the use of pictures and diagrams in place of manipulating real "things," some children may still be more comfortable with counters and even with one-to-one counting.

Its likely that sometime this year your child is going to begin to look for groups of real objects or pictures of groups that make ten - because ten is generally a better place than "one" from which to start counting. At school we find ten-sticks and loose beans very useful for games that develop this concept of "ten."

If you and your child would like to make some beansticks you might find the suggestions below helpful. You'll need popsicle sticks or tongue depressors, red beans (or any large beans), and white glue.



1. Run a line of white glue on the stick long enough for the number of beans you're going to use.

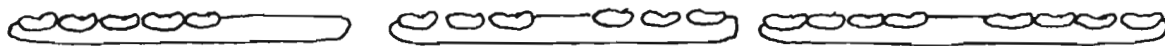


2. Place the beans on the glue.



3. Run another line of glue over the beans. This will disappear. Leave the sticks to dry overnight.

Its a good idea to group beans on the sticks so the child can see number combinations more clearly -



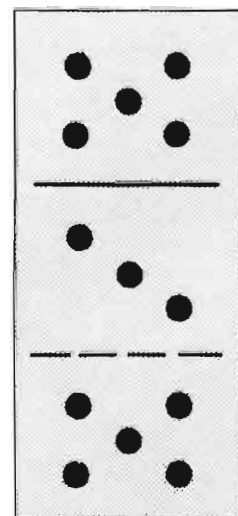
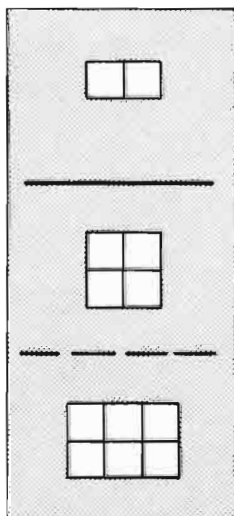
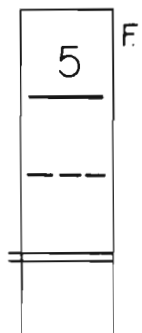
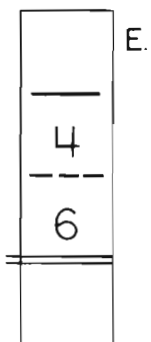
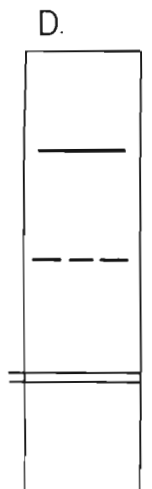
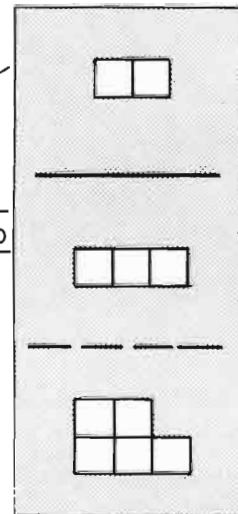
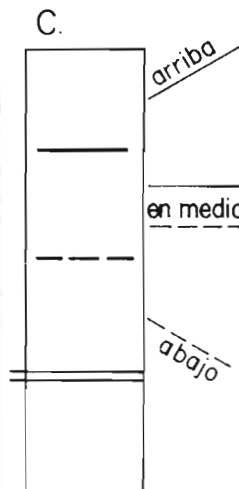
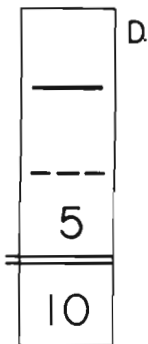
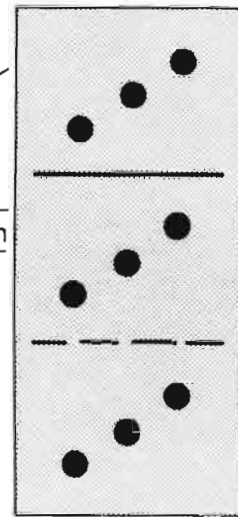
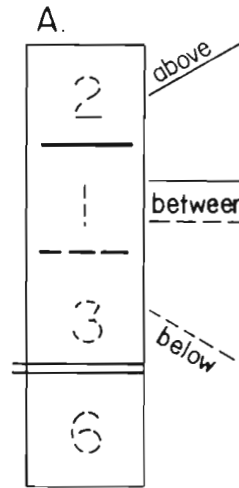
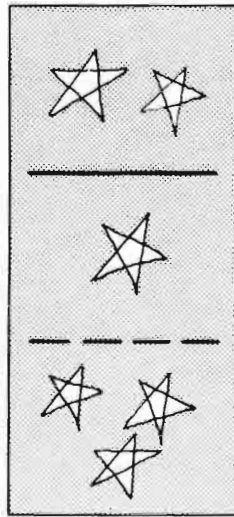
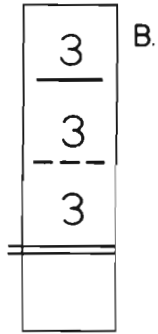
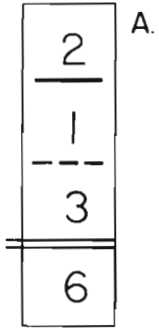
Your child will need a set of beansticks with 1 to 10 beans (ten-sticks.) You will also want an extra set of ones, twos, threes, fours, etc. A small bag of loose beans to keep with the sticks is also helpful. Many children like to make their own sets and even little ones can make them easily. It's fun!

Sincerely,

ABOVE.....BELOW.....and BETWEEN

ARRIBA.....ABAJO.....y

EN MEDIO



ABOVE.....BELOW.....and BETWEEN

ARRIBA.....ABAJO.....y EN MEDIO

A.

3
7
5
15

B.

4
4
4

A.

above

between

below

B.

C.

5
16

D.

2
9

C.

arriba

en medio

abajo

D.

E.

1
8

F.

12

E.

F.

ABOVE

BELOW

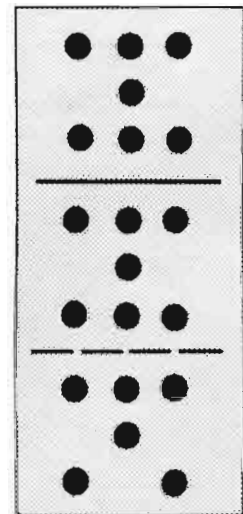
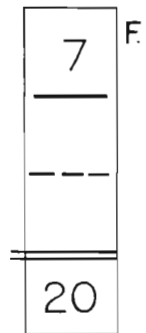
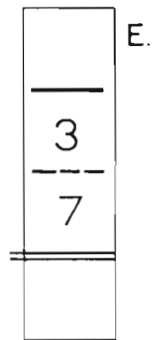
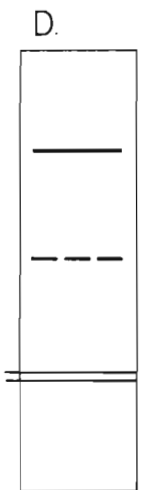
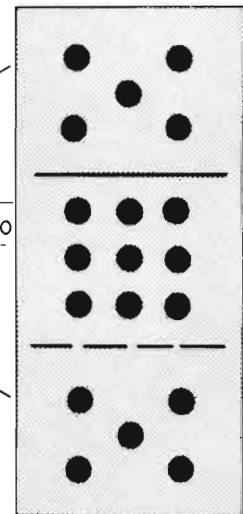
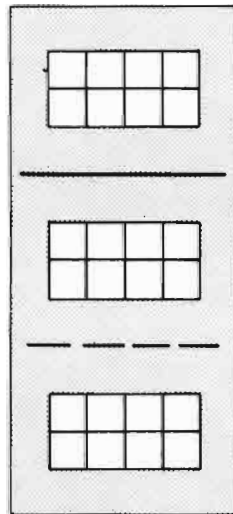
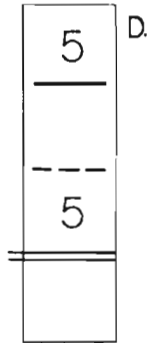
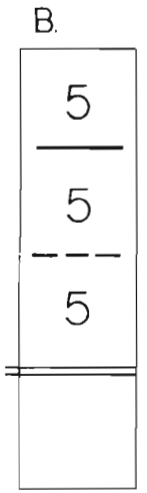
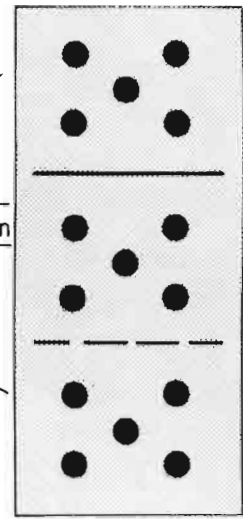
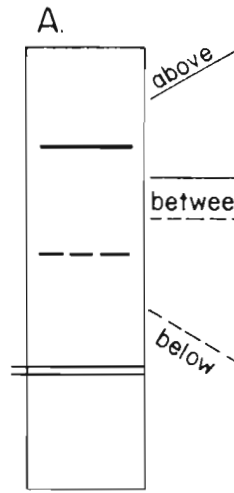
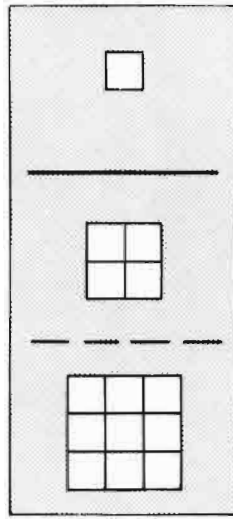
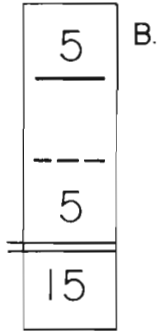
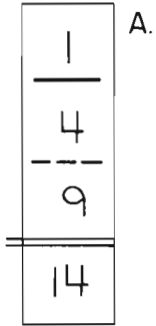
and BETWEEN

ARRIBA

ABAJO

y

EN MEDIO



ABOVE... BĒLOW... and BĒTWEEN

ARRIBA... ĀBĀJŌ... y... ĒN MĒDĪŌ

A.

10
5
10
25

B.

6
6
18

C.

9
27

D.

10
6

E.

12
4

F.

6

A.

above

●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●

between

B.

C.

arriba

en medio

abajo

D.

E.

□	□	
□	□	□
□	□	□
□	□	□
□	□	□

F.

one way to complete each example

una manera de completar cada ejemplo

$$\begin{array}{r} 2 \\ +3 \\ \hline 5 \end{array} \quad \begin{array}{r} 3 \\ +2 \\ \hline 5 \end{array} \quad \begin{array}{r} 5 \\ -3 \\ \hline 2 \end{array} \quad \begin{array}{r} 5 \\ -2 \\ \hline 3 \end{array}$$

$2 + 3 = 5$

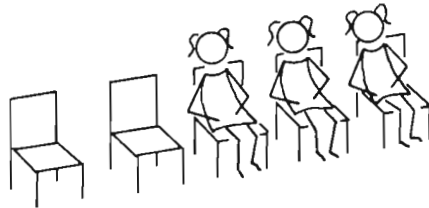
$5 - 3 = 2$

$3 + 2 = 5$

$5 - 2 = 3$

Fact Teams

Grupos de Cuentas



$\begin{array}{r} 2 \\ +3 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ +2 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ -3 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ - \\ \hline 3 \end{array}$
--	--	--	---

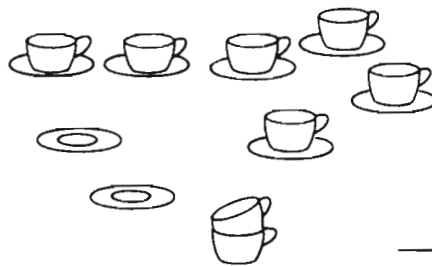
$$\begin{array}{r} 2 + 3 = \\ 3 + \end{array} =$$

$$\begin{array}{r} 5 - \\ - 2 = \end{array} =$$

$$\begin{array}{r} 6 \\ +2 \\ \hline 8 \end{array} \quad \begin{array}{r} 8 \\ -2 \\ \hline 6 \end{array}$$

$2 + 6 = 8$

$8 - 6 = 2$



$\begin{array}{r} 6 \\ +2 \\ \hline \end{array}$	$\begin{array}{r} \\ + \\ \hline \end{array}$	$\begin{array}{r} 8 \\ - \\ \hline \end{array}$	$\begin{array}{r} \\ - \\ \hline \end{array}$
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$$\begin{array}{r} + \\ + \end{array} =$$

$$\begin{array}{r} - \\ - \end{array} =$$

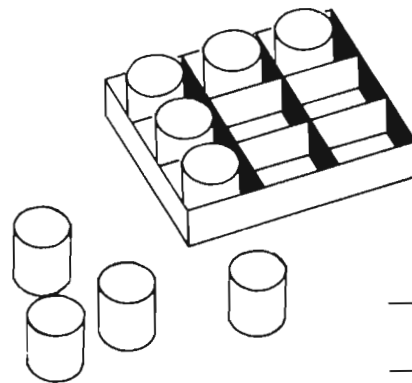
$$\begin{array}{r} 4 \\ +5 \\ \hline 9 \end{array} \quad \begin{array}{r} 9 \\ -5 \\ \hline 4 \end{array}$$

$5 + 4 =$

$9 - 4 =$

$4 + 5 =$

$9 - 5 =$



$\begin{array}{r} 5 \\ +4 \\ \hline \end{array}$	$\begin{array}{r} \\ + \\ \hline \end{array}$	$\begin{array}{r} 9 \\ - \\ \hline \end{array}$	$\begin{array}{r} \\ - \\ \hline \end{array}$
--	---	---	---

$$\begin{array}{r} + \\ + \end{array} =$$

$$\begin{array}{r} - \\ - \end{array} =$$

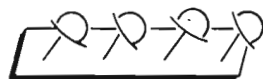
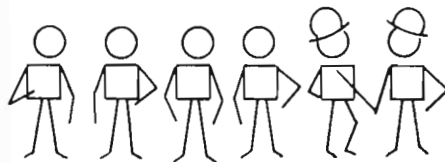
$$\begin{array}{r} 4 \\ +2 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ +4 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ -2 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ -4 \\ \hline \end{array}$$

$4 + 2 =$

$6 - 2 =$

$2 + 4 =$

$6 - 4 =$



$\begin{array}{r} \\ +2 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ + \\ \hline \end{array}$	$\begin{array}{r} \\ - \\ \hline \end{array}$	$\begin{array}{r} \\ - \\ \hline \end{array}$
--	---	---	---

$$\begin{array}{r} + \\ + \end{array} =$$

$$\begin{array}{r} - \\ - \end{array} =$$

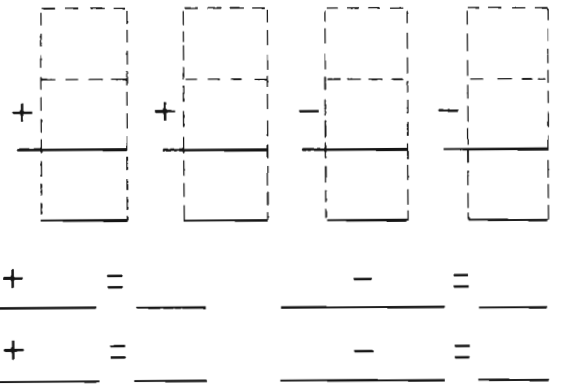
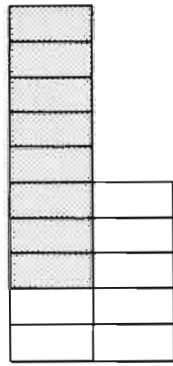
one way to complete
each example

una manera de completar
cada ejemplo

$$\begin{array}{r} 8 \\ +7 \\ \hline 15 \end{array} \quad \begin{array}{r} 7 \\ +8 \\ \hline 15 \end{array} \quad \begin{array}{r} 15 \\ -8 \\ \hline \end{array} \quad \begin{array}{r} 15 \\ -7 \\ \hline \end{array}$$

$8 + 7 = 15 \quad 15 - 8 = \underline{\quad}$

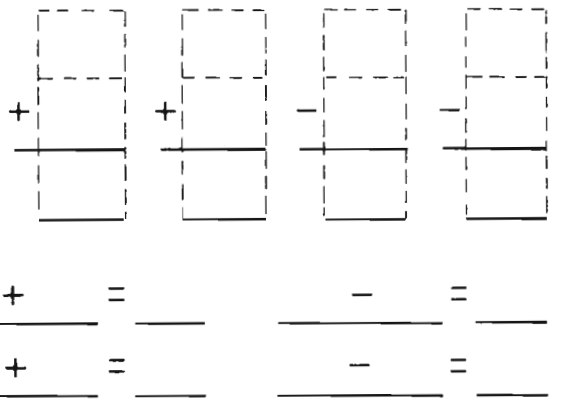
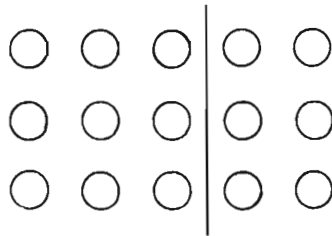
$7 + 8 = 15 \quad 15 - 7 = \underline{\quad}$



$$\begin{array}{r} 9 \\ +6 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ +9 \\ \hline \end{array} \quad \begin{array}{r} 15 \\ -6 \\ \hline \end{array} \quad \begin{array}{r} 15 \\ -9 \\ \hline \end{array}$$

$9 + 6 = \underline{\quad} \quad 15 - 6 = \underline{\quad}$

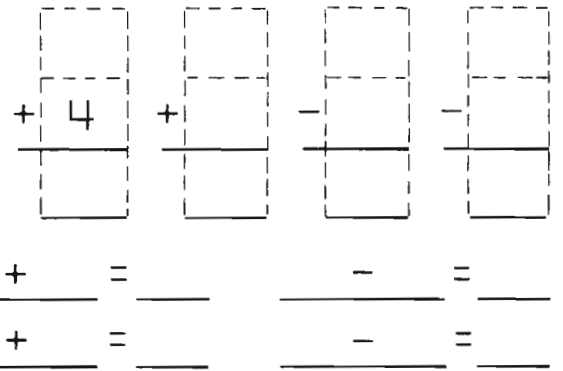
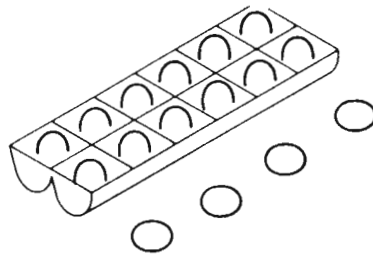
$6 + 9 = \underline{\quad} \quad 15 - 9 = \underline{\quad}$



$$\begin{array}{r} 12 \\ +4 \\ \hline 16 \end{array} \quad \begin{array}{r} 16 \\ -4 \\ \hline 12 \end{array}$$

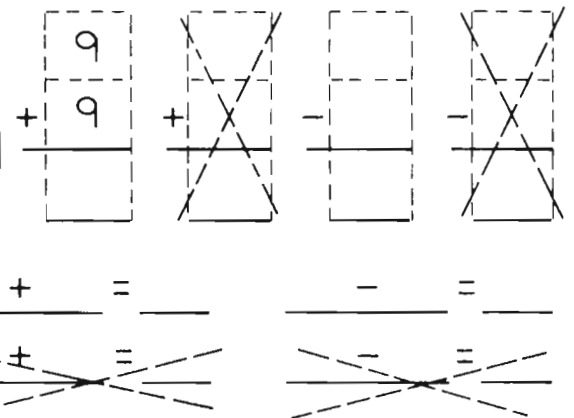
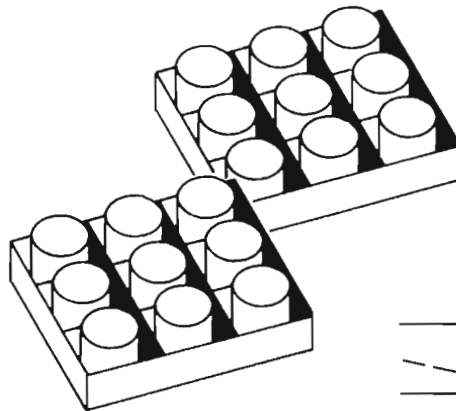
$12 + 4 = \underline{\quad} \quad 16 - 4 = \underline{\quad}$

$4 + 12 = \underline{\quad} \quad 16 - 12 = \underline{\quad}$



$$\begin{array}{r} 9 \\ +9 \\ \hline \end{array} \quad \begin{array}{r} 18 \\ -9 \\ \hline \end{array}$$

$9 + 9 = \underline{\quad} \quad 18 - 9 = \underline{\quad}$



one way to complete

una manera de completarlo

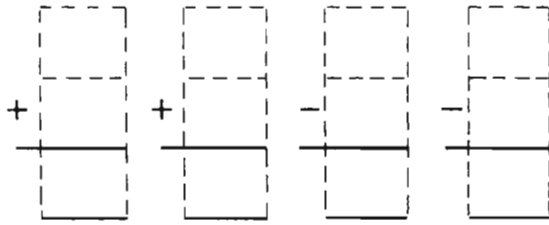
$$\begin{array}{r} 9 \\ +8 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ +9 \\ \hline \end{array} \quad \begin{array}{r} 17 \\ -8 \\ \hline \end{array} \quad \begin{array}{r} 17 \\ -9 \\ \hline \end{array}$$

$9 + 8 = \underline{\quad}$

$17 - 8 = \underline{\quad}$

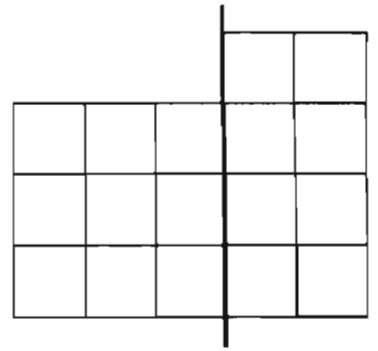
$8 + 9 = \underline{\quad}$

$17 - 9 = \underline{\quad}$



$+$ $=$ $-$ $=$

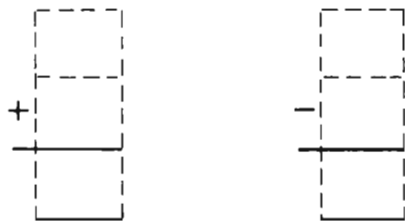
$+$ $=$ $-$ $=$



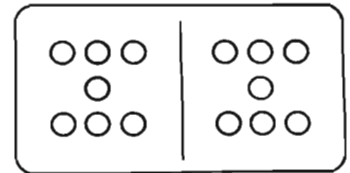
$$\begin{array}{r} 7 \\ +7 \\ \hline \end{array} \quad \begin{array}{r} 14 \\ -7 \\ \hline \end{array}$$

$7 + 7 = \underline{\quad}$

$14 - 7 = \underline{\quad}$



$+$ $=$ $-$ $=$



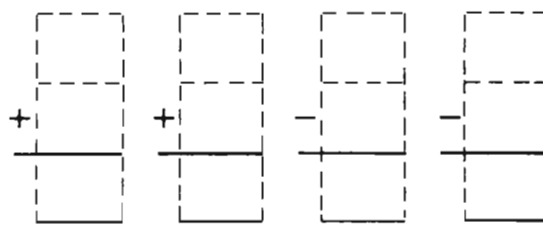
$$\begin{array}{r} 9 \\ +4 \\ \hline 13 \end{array} \quad \begin{array}{r} 13 \\ -4 \\ \hline 9 \end{array}$$

$4 + 9 = \underline{\quad}$

$13 - 9 = \underline{\quad}$

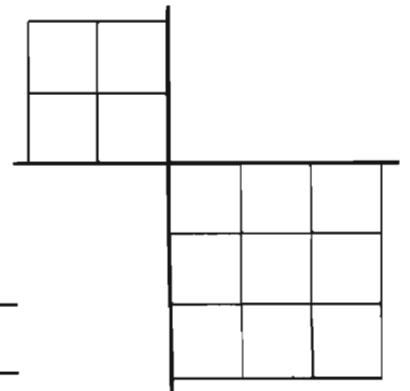
$9 + 4 = \underline{\quad}$

$13 - 4 = \underline{\quad}$



$+$ $=$ $-$ $=$

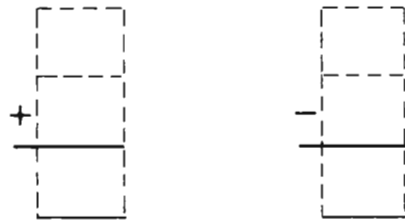
$+$ $=$ $-$ $=$



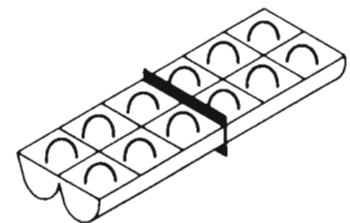
$$\begin{array}{r} 6 \\ +6 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ -6 \\ \hline \end{array}$$

$6 + 6 = \underline{\quad}$

$12 - 6 = \underline{\quad}$



$+$ $=$ $-$ $=$



one way to complete

una manera de completarlo

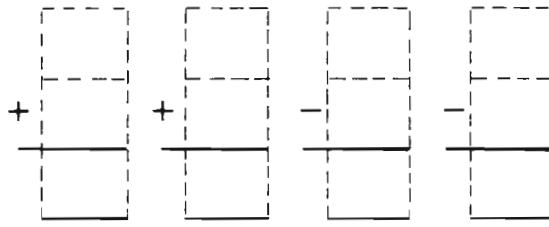
$$\begin{array}{r} 9 \\ +7 \\ \hline 16 \end{array} \quad \begin{array}{r} 7 \\ +9 \\ \hline 16 \end{array} \quad \begin{array}{r} 16 \\ -7 \\ \hline 9 \end{array} \quad \begin{array}{r} 16 \\ -9 \\ \hline 7 \end{array}$$

$9 + 7 = \underline{\quad}$

$16 - 7 = \underline{\quad}$

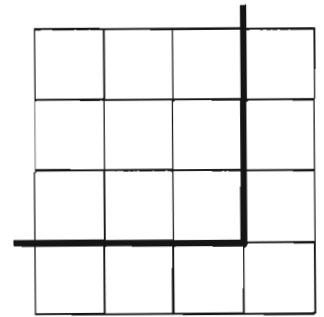
$7 + 9 = \underline{\quad}$

$16 - 9 = \underline{\quad}$



$$\begin{array}{r} + \\ \hline \end{array} = \underline{\quad} \quad \begin{array}{r} - \\ \hline \end{array} = \underline{\quad}$$

$$\begin{array}{r} + \\ \hline \end{array} = \underline{\quad} \quad \begin{array}{r} - \\ \hline \end{array} = \underline{\quad}$$



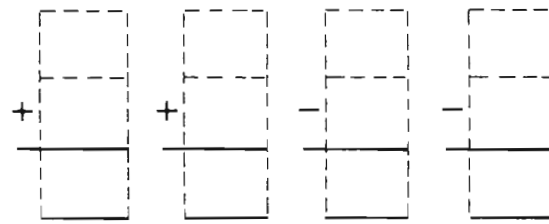
$$\begin{array}{r} 6 \\ +7 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ +6 \\ \hline \end{array} \quad \begin{array}{r} \text{---} \\ -7 \\ \hline 6 \end{array} \quad \begin{array}{r} \text{---} \\ -6 \\ \hline 7 \end{array}$$

$6 + 7 = \underline{\quad}$

$\underline{\quad} - 7 = 6$

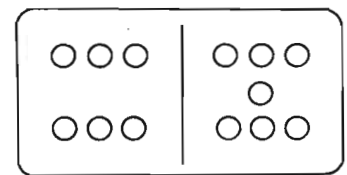
$7 + 6 = \underline{\quad}$

$\underline{\quad} - 6 = 7$



$$\begin{array}{r} + \\ \hline \end{array} = \underline{\quad} \quad \begin{array}{r} - \\ \hline \end{array} = \underline{\quad}$$

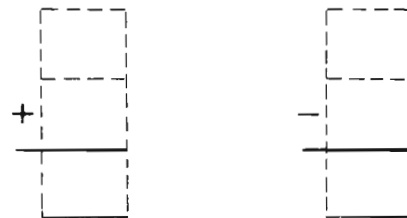
$$\begin{array}{r} + \\ \hline \end{array} = \underline{\quad} \quad \begin{array}{r} - \\ \hline \end{array} = \underline{\quad}$$



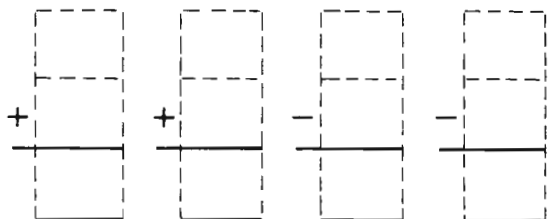
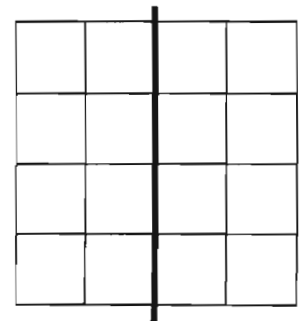
$$\begin{array}{r} 8 \\ +8 \\ \hline \end{array} \quad \begin{array}{r} 16 \\ -8 \\ \hline 8 \end{array}$$

$8 + 8 = \underline{\quad}$

$16 - 8 = \underline{\quad}$

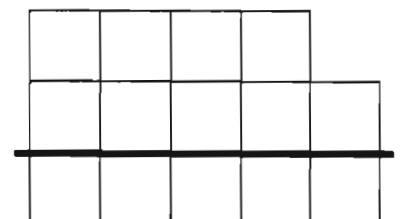


$$\begin{array}{r} + \\ \hline \end{array} = \underline{\quad} \quad \begin{array}{r} - \\ \hline \end{array} = \underline{\quad}$$

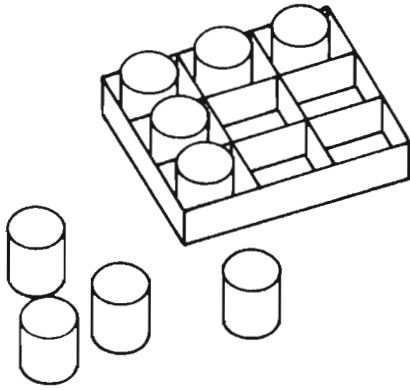


$$\begin{array}{r} + \\ \hline \end{array} = \underline{\quad} \quad \begin{array}{r} - \\ \hline \end{array} = \underline{\quad}$$

$$\begin{array}{r} + \\ \hline \end{array} = \underline{\quad} \quad \begin{array}{r} - \\ \hline \end{array} = \underline{\quad}$$



On Your Own
Usted Solo



Fact Teams

$$\begin{array}{|c|} \hline 5 \\ \hline + 4 \\ \hline \end{array}$$

$$\begin{array}{|c|} \hline \\ \hline + \\ \hline \end{array}$$

$$\begin{array}{|c|} \hline 9 \\ \hline - \\ \hline \end{array}$$

$$\begin{array}{|c|} \hline \\ \hline - \\ \hline \end{array}$$

Grupos de Cuentas

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

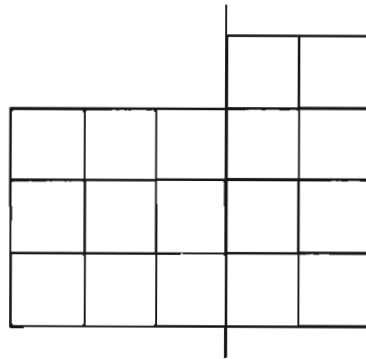
$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\begin{array}{|c|} \hline \\ \hline + \\ \hline \end{array}$$

$$\begin{array}{|c|} \hline \\ \hline + \\ \hline \end{array}$$

$$\begin{array}{|c|} \hline \\ \hline - \\ \hline \end{array}$$

$$\begin{array}{|c|} \hline \\ \hline - \\ \hline \end{array}$$



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

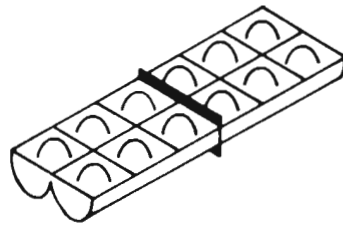
$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\begin{array}{|c|} \hline \\ \hline + \\ \hline \end{array}$$

$$\begin{array}{|c|} \hline \\ \hline - \\ \hline \end{array}$$



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$



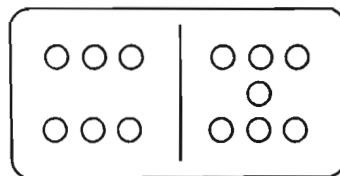
How do you feel?
¿Cómo se siente?

$$\begin{array}{|c|} \hline \\ \hline + \\ \hline \end{array}$$

$$\begin{array}{|c|} \hline \\ \hline + \\ \hline \end{array}$$

$$\begin{array}{|c|} \hline \\ \hline - \\ \hline \end{array}$$

$$\begin{array}{|c|} \hline \\ \hline - \\ \hline \end{array}$$



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

Dear Parent,

An important principle of CDA math is that children can communicate their understanding of ordinary arithmetic by merely learning to record what they can see. In the pages preceeding this progress test your child has been investigating the various ways of writing about number facts such as those on the reverse side of this letter. There are only 4 facts per page but all possible combinations are considered - always with pictures for counting.

At home you can assist this progress by continuing to work with beanstick combinations and dominoes. Look especially for combinations of things that make 10. For instance, 5 cups and 5 saucers make 10, etc. There are endless numbers of things to count, to add and to subtract, all around us. A few minutes taken to share this "child's play" arithmetic will really pay off. Each experience builds a better foundation for success in arithmetic.

If in recording the results of experiments with arithmetic your child writes his twos, fives, threes, etc. backwards, we hope that you will recall the message of a level A letter; namely, these reversals have no specific cut-off date and they are most likely to occur when a child is under pressure. We know some ten year olds who still reverse numerals - but we don't know any adults who have that problem.

Your patience, loving concern and justifiable pride in your child's progress are vital ingredients to continued success.

Sincerely,

9	6	3	8	1	5	7	4	2
+1	+4	+7	+2	+9	+5	+3	+6	+8
10								

one way to complete
una manera de completarlo

Please loop 10 blocks and give the total.

Favor de encerrar 10 cuadros y dé el total.

A.
$$\begin{array}{r} 8 \\ +6 \\ \hline 14 \end{array}$$

B.
$$\begin{array}{r} 9 \\ +7 \\ \hline 16 \end{array}$$

C.
$$\begin{array}{r} 6 \\ +6 \\ \hline \dots \end{array}$$

D.
$$\begin{array}{r} \dots \\ + \dots \\ \hline 16 \end{array}$$

E.
$$\begin{array}{r} 9 \\ +9 \\ \hline \dots \end{array}$$

F.
$$\begin{array}{r} 7 \\ +6 \\ \hline \dots \end{array}$$

G.
$$\begin{array}{r} 9 \\ +6 \\ \hline \dots \end{array}$$

H.
$$\begin{array}{r} 9 \\ +8 \\ \hline \dots \end{array}$$

A.
$$\begin{array}{r} 8 \\ +6 \\ \hline \dots \end{array}$$

B.
$$\begin{array}{r} \dots \\ + \dots \\ \hline \dots \end{array}$$

C.
$$\begin{array}{r} \dots \\ + \dots \\ \hline \dots \end{array}$$

D.
$$\begin{array}{r} \dots \\ + \dots \\ \hline \dots \end{array}$$

E.
$$\begin{array}{r} \dots \\ + \dots \\ \hline \dots \end{array}$$

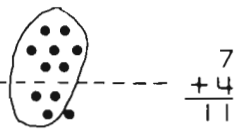
F.
$$\begin{array}{r} \dots \\ + \dots \\ \hline \dots \end{array}$$

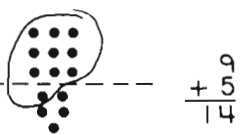
G.
$$\begin{array}{r} \dots \\ + \dots \\ \hline \dots \end{array}$$

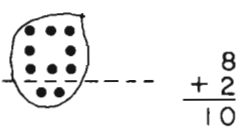
H.
$$\begin{array}{r} \dots \\ + \dots \\ \hline \dots \end{array}$$

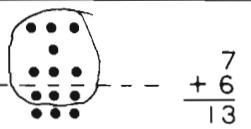
one way to complete the examples

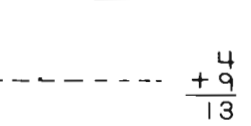
una manera de completar los ejemplos

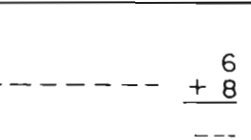
a. 

b. 

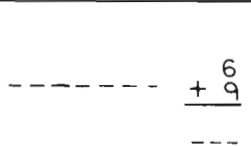
c. 

d. 

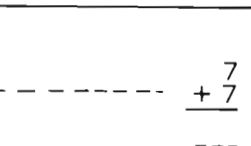
e. 

f. 

g. 

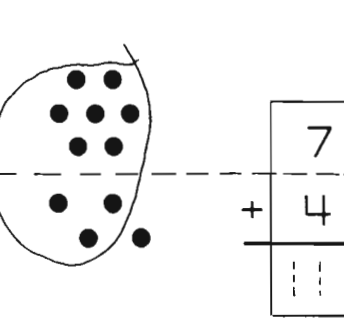
h. 

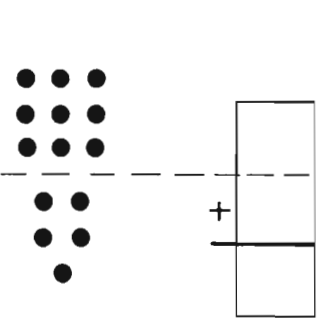
i. 

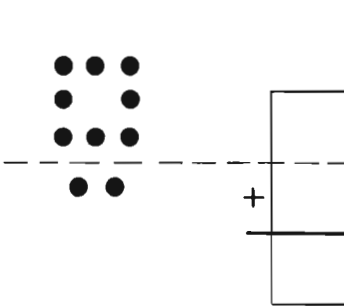
j. 

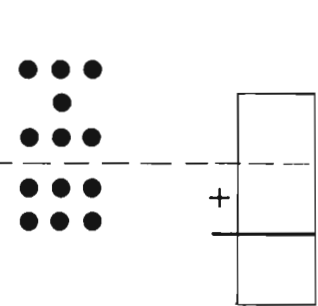
Please loop 10 dots and complete the addition examples.

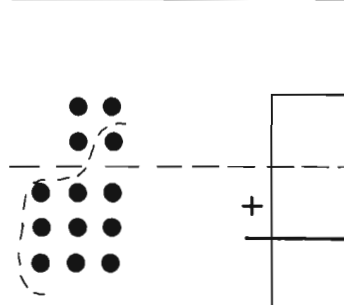
Favor de encerrar 10 puntos y de completar los ejemplos de sumas.

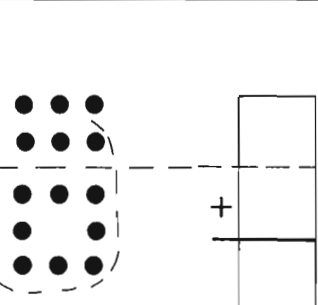
a. 

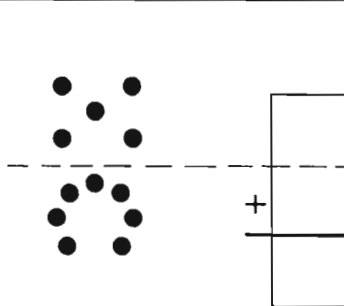
b. 

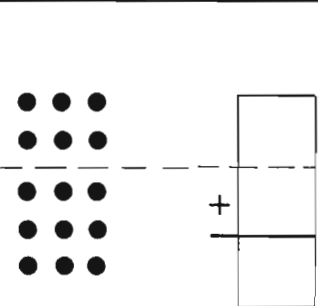
c. 

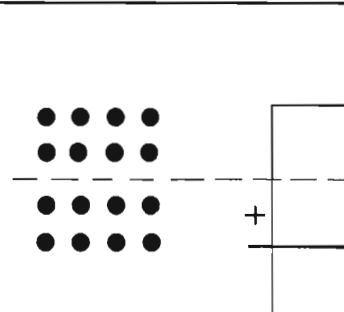
d. 

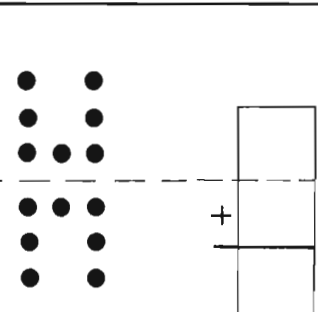
e. 

f. 

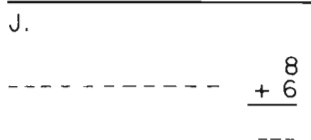
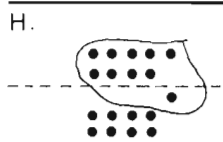
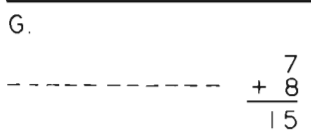
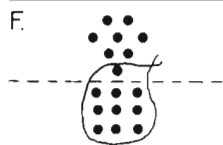
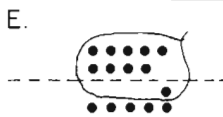
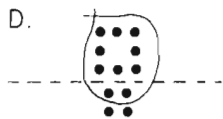
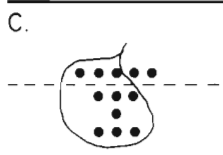
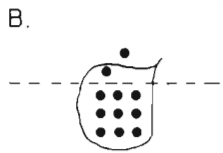
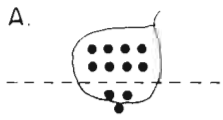
g. 

h. 

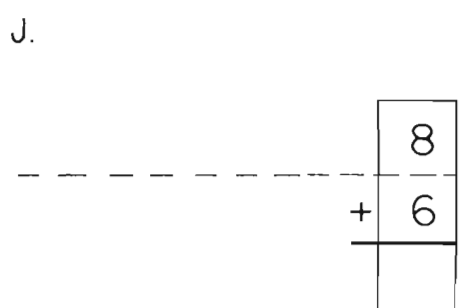
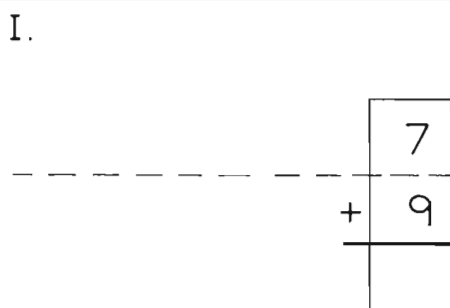
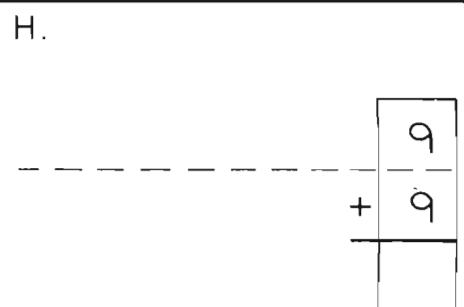
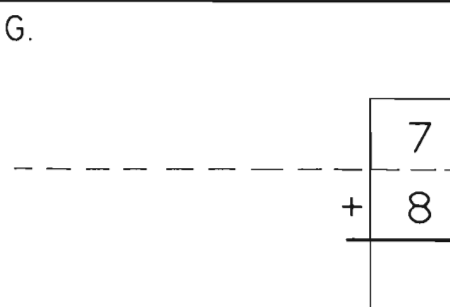
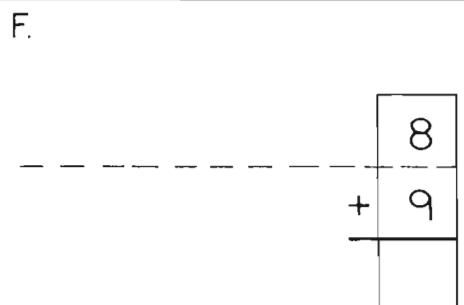
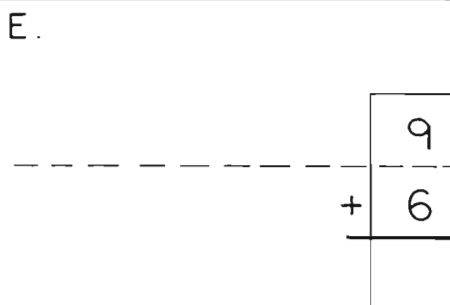
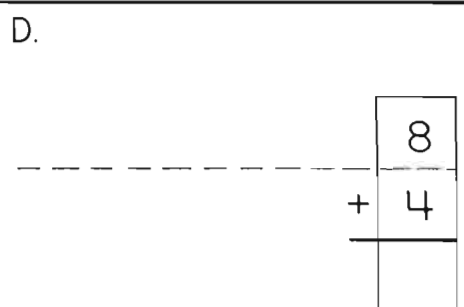
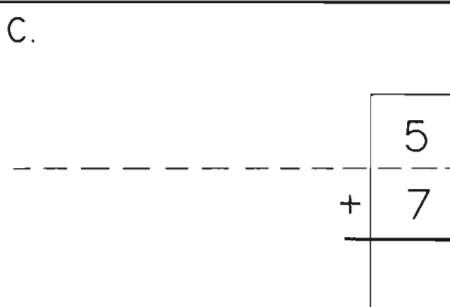
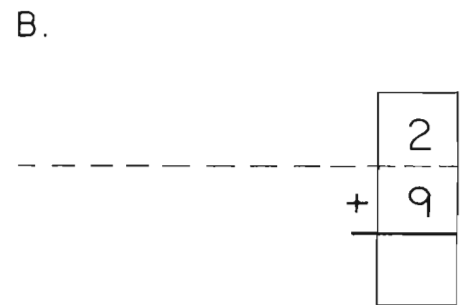
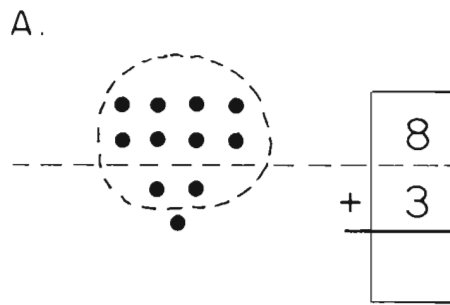
i. 

j. 

one way to complete
una manera de completarlo



Please draw your own sketches and complete.
Favor de hacer sus propios dibujos y completarlos.



one way to complete
una manera de completarlo

Please loop 10 and
complete the arithmetic.

Favor de encerrar 10 y
de completar la aritmética.

<p>a.</p> $\begin{array}{r} 9 \\ 1 \overline{) 4} \\ \hline 9 \\ + 5 \\ \hline 14 \end{array}$	<p>b.</p> $\begin{array}{r} 8 \\ 2 \overline{) 2} \\ \hline 8 \\ + 4 \\ \hline 12 \end{array}$	<p>c.</p> $\begin{array}{r} 9 \\ 2 \overline{) 1} \\ \hline 9 \\ + 3 \\ \hline 12 \end{array}$	<p>a.</p> $\begin{array}{r} 9 \\ 1 \overline{) 4} \\ \hline 9 \\ + 5 \\ \hline 14 \end{array}$	<p>b.</p> $\begin{array}{r} 8 \\ 2 \overline{) 2} \\ \hline 8 \\ + 4 \\ \hline \end{array}$	<p>c.</p> $\begin{array}{r} 9 \\ 2 \overline{) 1} \\ \hline 9 \\ + \end{array}$
<p>d.</p> $\begin{array}{r} 7 \\ 3 \overline{) 1} \\ \hline 7 \\ + 3 \\ \hline \end{array}$	<p>e.</p> $\begin{array}{r} 6 \\ 1 \overline{) 4} \\ \hline 6 \\ + 4 \\ \hline \end{array}$	<p>f.</p> $\begin{array}{r} 8 \\ 2 \overline{) 3} \\ \hline 8 \\ + 3 \\ \hline \end{array}$	<p>d.</p> $\begin{array}{r} 7 \\ 3 \overline{) 1} \\ \hline 7 \\ + \end{array}$	<p>e.</p> $\begin{array}{r} 6 \\ 1 \overline{) 4} \\ \hline 6 \\ + \end{array}$	<p>f.</p> $\begin{array}{r} 8 \\ \hline 8 \\ + 5 \\ \hline \end{array}$

<p>g.</p> $\begin{array}{r} 9 \\ 1 \overline{) 3} \\ \hline 9 \\ + 3 \\ \hline \end{array}$	<p>h.</p> $\begin{array}{r} 8 \\ 2 \overline{) 1} \\ \hline 8 \\ + 2 \\ \hline \end{array}$	<p>i.</p> $\begin{array}{r} 7 \\ 2 \overline{) 3} \\ \hline 7 \\ + 3 \\ \hline \end{array}$	<p>g.</p> $\begin{array}{r} 9 \\ 1 \overline{) 3} \\ \hline 9 \\ + 4 \\ \hline \end{array}$	<p>h.</p> $\begin{array}{r} 8 \\ 2 \overline{) 1} \\ \hline 8 \\ + 3 \\ \hline \end{array}$	<p>i.</p> $\begin{array}{r} 7 \\ 2 \overline{) 3} \\ \hline 7 \\ + 5 \\ \hline \end{array}$
<p>j.</p> $\begin{array}{r} 9 \\ 1 \overline{) 1} \\ \hline 9 \\ + 2 \\ \hline 11 \end{array}$	<p>k.</p> $\begin{array}{r} 8 \\ \hline 8 \\ + 4 \\ \hline \end{array}$	<p>l.</p> $\begin{array}{r} 9 \\ 5 \overline{) 1} \\ \hline 9 \\ + 6 \\ \hline \end{array}$	<p>j.</p> $\begin{array}{r} 9 \\ 1 \overline{) 1} \\ \hline 9 \\ + 2 \\ \hline \end{array}$	<p>k.</p> $\begin{array}{r} 8 \\ 2 \overline{) 2} \\ \hline 8 \\ + 4 \\ \hline 12 \end{array}$	<p>l.</p> $\begin{array}{r} 9 \\ \hline 9 \\ + 6 \\ \hline \end{array}$
<p>m.</p> $\begin{array}{r} 8 \\ 2 \overline{) 4} \\ \hline 8 \\ + 6 \\ \hline \end{array}$	<p>n.</p> $\begin{array}{r} 9 \\ 6 \overline{) 1} \\ \hline 9 \\ + 7 \\ \hline \end{array}$	<p>o.</p> $\begin{array}{r} 8 \\ \hline 8 \\ + 5 \\ \hline \end{array}$	<p>m.</p> $\begin{array}{r} 8 \\ 2 \overline{) } \\ \hline 8 \\ + 6 \\ \hline \end{array}$	<p>n.</p> $\begin{array}{r} 9 \\ \hline 9 \\ + 7 \\ \hline \end{array}$	<p>o.</p> $\begin{array}{r} 8 \\ \hline 8 \\ + 5 \\ \hline \end{array}$
<p>p.</p> $\begin{array}{r} 9 \\ 1 \overline{) 7} \\ \hline 9 \\ + 8 \\ \hline \end{array}$	<p>q.</p> $\begin{array}{r} 8 \\ \hline 8 \\ + 7 \\ \hline \end{array}$	<p>r.</p> $\begin{array}{r} 9 \\ 8 \overline{) 1} \\ \hline 9 \\ + 9 \\ \hline \end{array}$	<p>p.</p> $\begin{array}{r} 9 \\ \hline 9 \\ + 8 \\ \hline \end{array}$	<p>q.</p> $\begin{array}{r} 8 \\ \hline 8 \\ + 7 \\ \hline \end{array}$	<p>r.</p> $\begin{array}{r} 9 \\ \hline 9 \\ + 9 \\ \hline \end{array}$

A.

$$10 + 2 = 14$$

$$10 - 3 = 7$$

$$10 + 3 = \underline{\quad}$$

$\frac{10}{-5}$	$\frac{10}{+5}$	$\frac{10}{-8}$	$\frac{10}{+10}$
5	---	2	---

B.

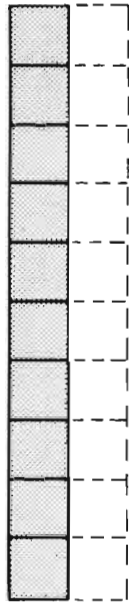
$$8 - 2 = 6$$

$$8 + 3 = 11$$

$$8 - 3 = \underline{\quad}$$

$\frac{5}{+8}$	$\frac{8}{+7}$	$\frac{10}{+8}$	$\frac{12}{+8}$
13	15	---	20

A.



$$\frac{10 + 2}{\quad} = \underline{\quad}$$

$$\frac{10 - 3}{\quad} = \underline{\quad}$$

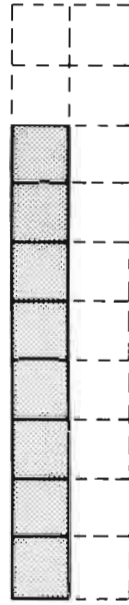
$$\frac{10 + 3}{\quad} = \underline{\quad}$$

$$\frac{10 - 2}{\quad} = \underline{\quad}$$

$\frac{10}{-5}$	$\frac{10}{+5}$
---	---

$\frac{10}{-8}$	$\frac{10}{+10}$
---	---

B.



$$\frac{8 - 2}{\quad} = \underline{\quad}$$

$$\frac{8 + 3}{\quad} = \underline{\quad}$$

$$\frac{8 - 3}{\quad} = \underline{\quad}$$

$$\frac{8 + 2}{\quad} = \underline{\quad}$$

$\frac{5}{+8}$	$\frac{8}{+7}$
---	---

$\frac{10}{+8}$	$\frac{12}{+8}$
---	---

C.

$$5 - 1 = \underline{\quad}$$

$$5 + 6 = 11$$

$$8 + 5 = 13$$

$\frac{15}{+5}$	$\frac{5}{+9}$	$\frac{20}{-5}$	$\frac{20}{-15}$
20	14	---	5

D.

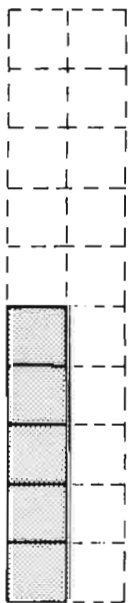
$$7 + 3 = 10$$

$$7 + 4 = 11$$

$$7 - 7 = 0$$

$\frac{9}{+7}$	$\frac{20}{-7}$
---	---

C.



$$\frac{5 - 1}{\quad} = \underline{\quad}$$

$$\frac{5 + 6}{\quad} = \underline{\quad}$$

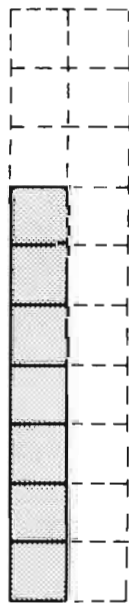
$$\frac{8 + 5}{\quad} = \underline{\quad}$$

$$\frac{5 + 5}{\quad} = \underline{\quad}$$

$\frac{15}{+5}$	$\frac{5}{+9}$
---	---

$\frac{20}{-5}$	$\frac{20}{-15}$
---	---

D.



$$\frac{7 + 3}{\quad} = \underline{\quad}$$

$$\frac{7 - 3}{\quad} = \underline{\quad}$$

$$\frac{7 + 4}{\quad} = \underline{\quad}$$

$$\frac{7 + 6}{\quad} = \underline{\quad}$$

$$\frac{7 - 7}{\quad} = \underline{\quad}$$

$$\frac{7 + 1}{\quad} = \underline{\quad}$$

$\frac{9}{+7}$	$\frac{20}{-7}$
---	---

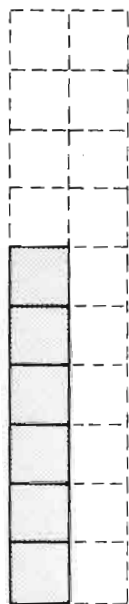
E.

$$\begin{array}{r}
 6 + 9 = 15 \\
 20 - 6 = 14 \\
 6 + 5 = \underline{\quad} \\
 13 - 6 = 7 \\
 \hline
 \begin{array}{r}
 10 \quad 6 \\
 - \quad 6 \quad + 7 \\
 \hline
 \quad \quad 13
 \end{array}
 \end{array}$$

F.

$$\begin{array}{r}
 9 + 5 = 14 \\
 9 + 4 = 13 \\
 \hline
 \begin{array}{r}
 \quad 9 \\
 + 8 \\
 \hline
 \quad 17
 \end{array}
 \end{array}$$

E.



$$\underline{20 - 6} = \underline{\quad}$$

$$\underline{6 + 5} = \underline{\quad}$$

$$\underline{13 - 6} = \underline{\quad}$$

$$\underline{6 + 9} = \underline{\quad}$$

$$\begin{array}{r}
 10 \quad 6 \\
 - \quad 6 \quad + 7 \\
 \hline
 \quad \quad 17
 \end{array}$$

$$\begin{array}{r}
 6 \quad 12 \\
 + 8 \quad - 6 \\
 \hline
 \quad \quad 17
 \end{array}$$

F.



$$\underline{9 + 5} = \underline{\quad}$$

$$\underline{9 + 4} = \underline{\quad}$$

$$\underline{9 + 6} = \underline{\quad}$$

$$\underline{9 + 3} = \underline{\quad}$$

$$\begin{array}{r}
 9 \quad 20 \\
 + 9 \quad - 9 \\
 \hline
 \quad \quad 19
 \end{array}$$

$$\begin{array}{r}
 9 \quad 9 \\
 + 8 \quad + 7 \\
 \hline
 \quad \quad 16
 \end{array}$$

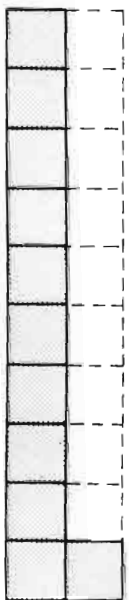
G.

$$\begin{array}{r}
 11 - 8 = 3 \\
 11 - 5 = 6 \\
 9 + \underline{\quad} = 11 \\
 \hline
 \begin{array}{r}
 8 \\
 + 3 \\
 \hline
 11
 \end{array}
 \end{array}$$

H.

$$\begin{array}{r}
 12 - 10 = 2 \\
 12 - 9 = 3 \\
 10 + 2 = 12 \\
 \hline
 \begin{array}{r}
 12 \quad 12 \\
 - 5 \quad - 8 \\
 \hline
 \quad \quad 12 \\
 \hline
 12 \quad 20 \\
 - 6 \quad - 12 \\
 \hline
 \quad \quad 10
 \end{array}
 \end{array}$$

G.



$$\underline{11 - 8} = \underline{\quad}$$

$$\underline{11 - 5} = \underline{\quad}$$

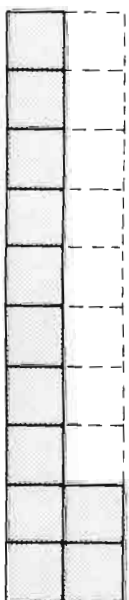
$$\underline{9 + \quad} = \underline{11}$$

$$\underline{11 - 2} = \underline{\quad}$$

$$\begin{array}{r}
 6 \quad 11 \\
 + \quad 3 \\
 \hline
 9 \quad 14
 \end{array}$$

$$\begin{array}{r}
 11 \quad 11 \\
 - 4 \quad - 1 \\
 \hline
 \quad \quad 10
 \end{array}$$

H.



$$\underline{12 - 9} = \underline{\quad}$$

$$\underline{10 + \quad} = \underline{12}$$

$$\underline{\quad + 6} = \underline{12}$$

$$\underline{12 - 10} = \underline{\quad}$$

$$\begin{array}{r}
 12 \quad 12 \\
 - 5 \quad - 8 \\
 \hline
 \quad \quad 10
 \end{array}$$

$$\begin{array}{r}
 12 \quad 20 \\
 - 6 \quad - 12 \\
 \hline
 \quad \quad 14
 \end{array}$$

I.

$20 - 13 = 7$

$13 - 4 = 9$

$13 - 6 = \underline{\quad}$

$6 + 7 = 13$

$$\begin{array}{r} 13 \\ -7 \\ \hline 6 \end{array} \quad \begin{array}{r} 13 \\ -5 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 13 \\ -8 \\ \hline 5 \end{array}$$

J.

$14 - 4 = 10$

$14 - 10 = 4$

$14 + 6 = 20$

$4 + 10 = 14$

$$\begin{array}{r} 14 \\ -8 \\ \hline 6 \end{array} \quad \begin{array}{r} 14 \\ -6 \\ \hline 8 \end{array}$$

I.



$\underline{13 - 4} = \underline{\quad}$

$\underline{13 - 6} = \underline{\quad}$

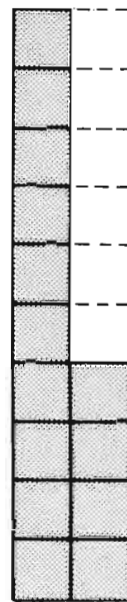
$\underline{6 + \quad} = \underline{13}$

$\underline{20 - 13} = \underline{\quad}$

$$\begin{array}{r} 13 \\ -8 \\ \hline \end{array} \quad \begin{array}{r} 13 \\ -7 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - \\ \hline 9 \end{array} \quad \begin{array}{r} 13 \\ -5 \\ \hline \end{array}$$

J.



$\underline{\quad + 10} = \underline{14}$

$\underline{14 - 4} = \underline{\quad}$

$\underline{14 - 10} = \underline{\quad}$

$\underline{14 + \quad} = \underline{20}$

$$\begin{array}{r} 14 \\ -8 \\ \hline \end{array} \quad \begin{array}{r} 14 \\ -6 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ -5 \\ \hline \end{array} \quad \begin{array}{r} 14 \\ -7 \\ \hline \end{array}$$

K.

$15 - 10 = 5$

$15 - 9 = 6$

$15 + 5 = 20$

$20 - 5 = 15$

$$\begin{array}{r} 9 \\ +6 \\ \hline 15 \end{array} \quad \begin{array}{r} 15 \\ -7 \\ \hline 8 \end{array}$$

L.

K.



$\underline{15 + 5} = \underline{\quad}$

$\underline{20 - 5} = \underline{\quad}$

$\underline{15 - 10} = \underline{\quad}$

$\underline{15 - 9} = \underline{\quad}$

$$\begin{array}{r} 9 \\ + \\ \hline 15 \end{array} \quad \begin{array}{r} 15 \\ -6 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ -3 \\ \hline \end{array} \quad \begin{array}{r} 15 \\ -7 \\ \hline \end{array}$$

L.



$\underline{16 + 4} = \underline{\quad}$

$\underline{16 - 7} = \underline{\quad}$

$\underline{20 - \quad} = \underline{16}$

$\underline{16 - 9} = \underline{\quad}$

$$\begin{array}{r} 16 \\ -8 \\ \hline \end{array} \quad \begin{array}{r} 16 \\ -11 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - \\ \hline 11 \end{array} \quad \begin{array}{r} 20 \\ -16 \\ \hline \end{array}$$

M.

$$17 - 8 = 9$$

$$20 - 3 = 17$$

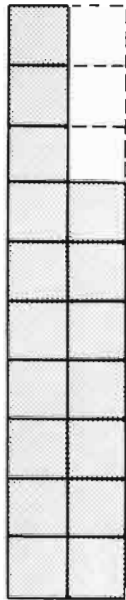
$$\begin{array}{r} 17 \\ +3 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 17 \\ -3 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 18 \\ -7 \\ \hline 11 \end{array}$$

$$\begin{array}{r} \dots \\ -9 \\ \hline 9 \end{array}$$

M.



$$\underline{17 - 8} = \underline{\quad}$$

$$\underline{-3} = \underline{17}$$

$$\underline{8 + \quad} = \underline{17}$$

$$\underline{18 - 8} = \underline{\quad}$$

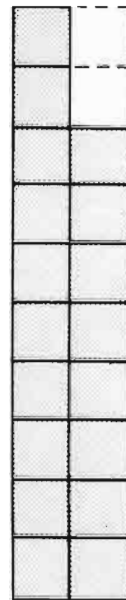
$$\begin{array}{r} 9 \\ + \quad \\ \hline 17 \end{array}$$

$$\begin{array}{r} 17 \\ -3 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ +3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ +7 \\ \hline \end{array}$$

N.



$$\underline{18 - 9} = \underline{\quad}$$

$$\underline{15 + \quad} = \underline{18}$$

$$\underline{20 - 18} = \underline{\quad}$$

$$\underline{17 - 7} = \underline{\quad}$$

$$\begin{array}{r} 9 \\ + \quad \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - \quad \\ \hline 13 \end{array}$$

$$\begin{array}{r} 18 \\ - \quad \\ \hline 14 \end{array}$$

$$\begin{array}{r} 18 \\ - \quad \\ \hline 11 \end{array}$$

O.

$$13 - 4 = 9$$

$$8 + 7 = 15$$

$$14 - 5 = 9$$

$$8 + 9 = 17$$

$$\begin{array}{r} 9 \\ +9 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 7 \\ +7 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 13 \\ -6 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 14 \\ -9 \\ \hline 5 \end{array}$$

O.



$$\underline{6 + 7} = \underline{\quad}$$

$$\underline{8 + 7} = \underline{\quad}$$

$$\underline{5 + 8} = \underline{\quad}$$

$$\underline{8 + 9} = \underline{\quad}$$

$$\underline{13 - 4} = \underline{\quad}$$

$$\underline{16 - 8} = \underline{\quad}$$

$$\underline{14 - 5} = \underline{\quad}$$

$$\underline{16 - 9} = \underline{\quad}$$

$$\begin{array}{r} 7 \\ +8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ +9 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ +5 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ +7 \\ \hline \end{array}$$

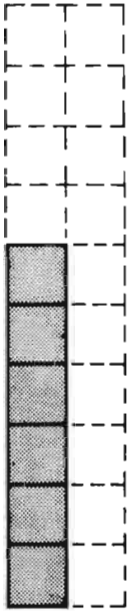
$$\begin{array}{r} 13 \\ -6 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ -8 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ -9 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ -9 \\ \hline \end{array}$$

On Your Own



$$\frac{6 + 4}{\quad} = \underline{\quad}$$

$$\frac{10 + 6}{\quad} = \underline{\quad}$$

$$\frac{6 + 9}{\quad} = \underline{\quad}$$

$$\frac{20 - 6}{\quad} = \underline{\quad}$$

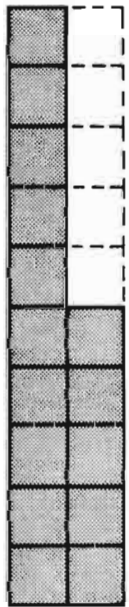
$$\frac{6 + 5}{\quad} = \underline{\quad}$$

$$\frac{13 - 6}{\quad} = \underline{\quad}$$

$$\begin{array}{r} 12 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ - 6 \\ \hline \end{array}$$



$$\frac{15 - 5}{\quad} = \underline{\quad}$$

$$\frac{15 - 10}{\quad} = \underline{\quad}$$

$$\frac{15 - 9}{\quad} = \underline{\quad}$$

$$\frac{15 + 5}{\quad} = \underline{\quad}$$

$$\frac{20 - 5}{\quad} = \underline{\quad}$$

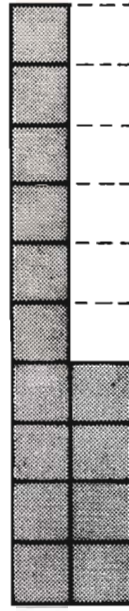
$$\frac{15 - 8}{\quad} = \underline{\quad}$$

$$\begin{array}{r} 9 \\ + \quad \\ \hline 15 \end{array}$$

$$\begin{array}{r} 15 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ + \quad \\ \hline 15 \end{array}$$

Usted Solo



$$\frac{14 - 4}{\quad} = \underline{\quad}$$

$$\frac{14 - 10}{\quad} = \underline{\quad}$$

$$\frac{14 + \quad}{\quad} = \underline{20}$$

$$\frac{\quad + 10}{\quad} = \underline{14}$$

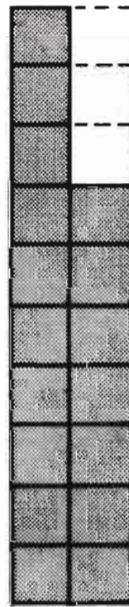
$$\frac{11 + \quad}{\quad} = \underline{14}$$

$$\frac{9 + \quad}{\quad} = \underline{14}$$

$$\begin{array}{r} 14 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + \quad \\ \hline 14 \end{array}$$

$$\begin{array}{r} 14 \\ - 5 \\ \hline \end{array}$$



$$\frac{17 - 6}{\quad} = \underline{\quad}$$

$$\frac{17 - 10}{\quad} = \underline{\quad}$$

$$\frac{17 - 7}{\quad} = \underline{\quad}$$

$$\frac{17 - 8}{\quad} = \underline{\quad}$$

$$\frac{\quad - 3}{\quad} = \underline{17}$$

$$\frac{8 + \quad}{\quad} = \underline{17}$$

$$\begin{array}{r} 10 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} + 6 \\ \hline 17 \end{array}$$

$$\begin{array}{r} 17 \\ - 3 \\ \hline \end{array}$$

$$\frac{9 + 6}{\quad} = \underline{\quad}$$

$$\frac{6 + 7}{\quad} = \underline{\quad}$$

$$\frac{8 + 7}{\quad} = \underline{\quad}$$

$$\frac{14 - 6}{\quad} = \underline{\quad}$$

$$\frac{13 - 4}{\quad} = \underline{\quad}$$

$$\frac{16 - 8}{\quad} = \underline{\quad}$$

$$\begin{array}{r} 9 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 6 \\ \hline \end{array}$$



How do you feel?
¿Cómo se siente?

Dear Parent,

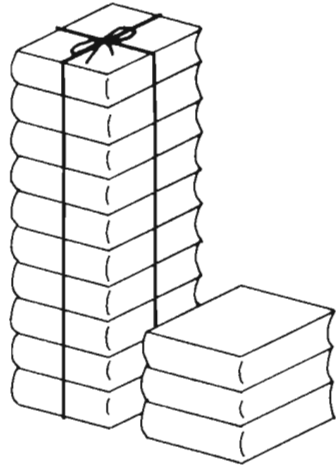
In this section, as in much of level B Individualized Computation, your child is continuing to develop skills in the four basic processes of arithmetic. Here there has been emphasis on recognizing combinations that make ten and in using this knowledge as a basis for "counting on."

To avoid the tedium of always beginning with "one," your child (and every other child) is finally going to look for a shortcut. The easiest shortcut is recognizing tens and starting from there. The importance of this step can't be overstated. But we must not forget that each child will get there at a separate pace. We need to encourage, to offer assistance, but not to push. Experience with pennies and dimes is helpful, ten-sticks are helpful, fingers and toes are helpful.

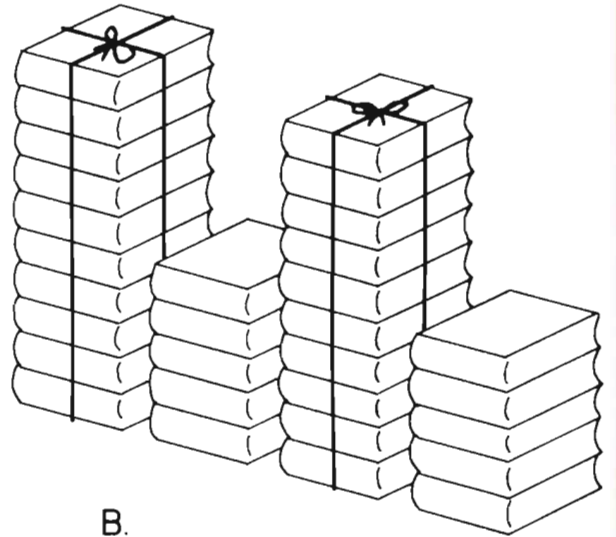
Coming next is a series of exercises where your child can demonstrate readiness to count by tens. Success can be praised. Hesitation means that you can offer some friendly assistance with beansticks or other counters. Success now or a month or year from now means little in terms of overall growth in math.

Sincerely,

How many books?
 ¿Cuántos libros hay?



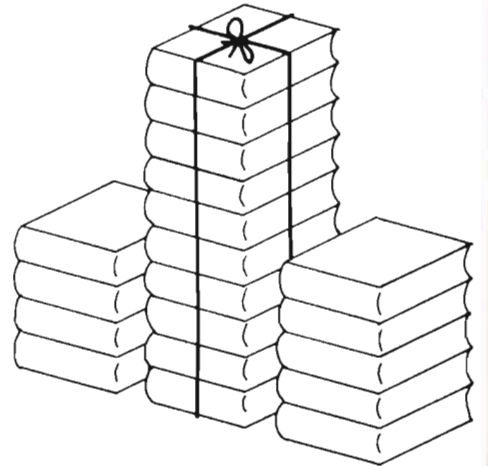
A. -----



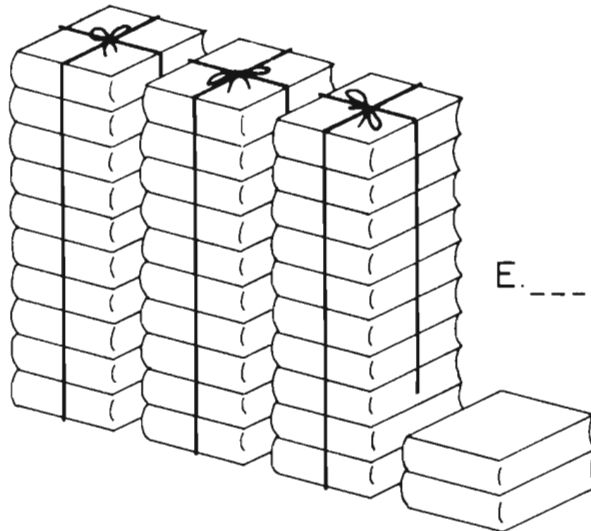
B. -----



C. -----



D. -----



E. -----

A. 13

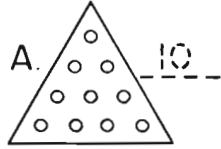
B. 30

C. -----

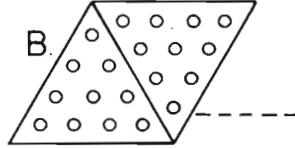
D. -----

E. 32

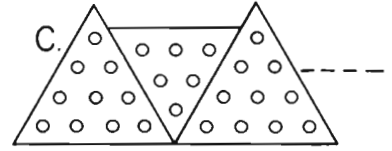
A. 10



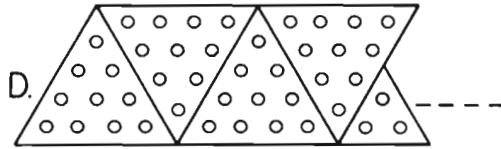
B. ---



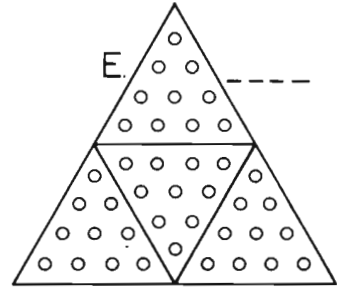
C. 26



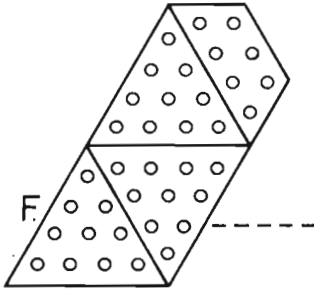
D. 43



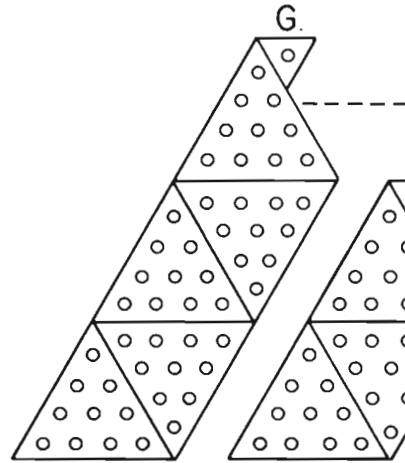
E. ---



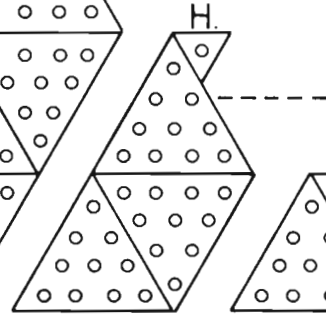
F. ---



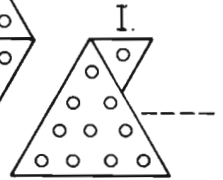
G. 51



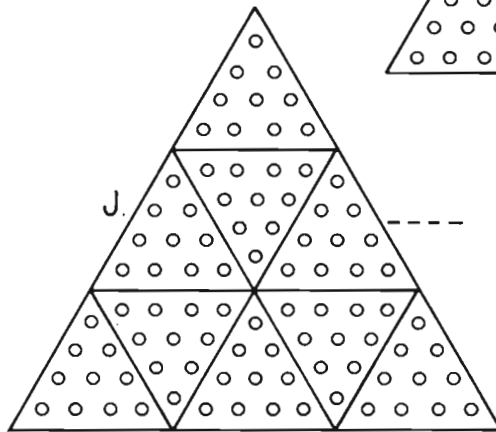
H. ---



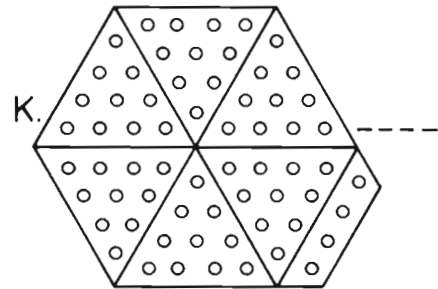
I. ---



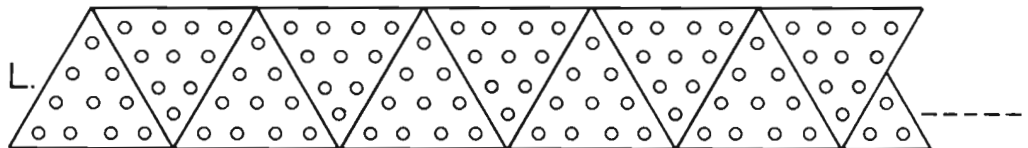
J. 90



K. ---



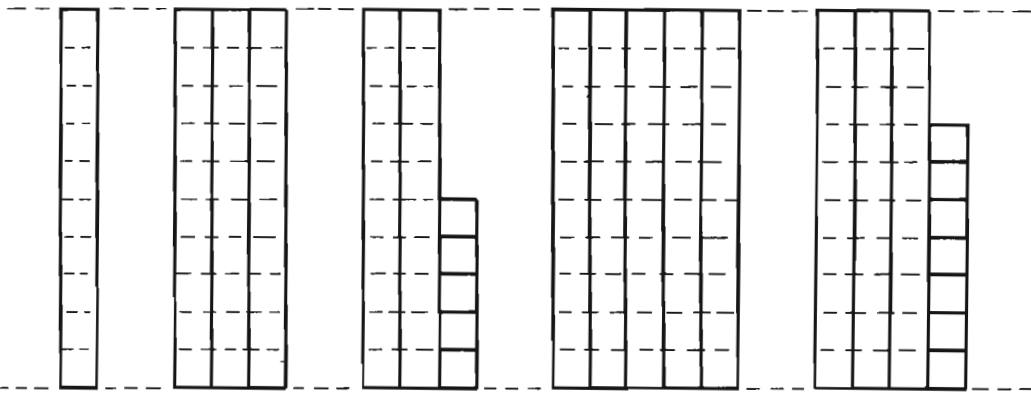
L. 103



A. 10

B. 30

C. 25



A.

B.

C.

D.

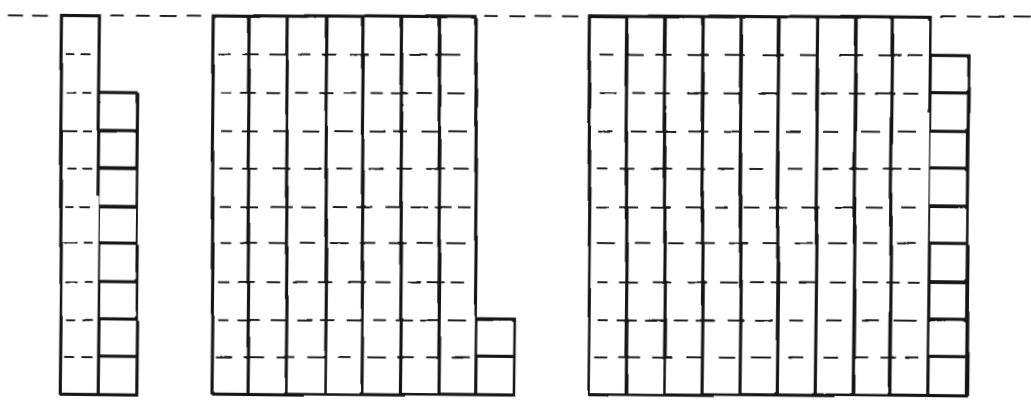
E.

D.

E. 37

F.

G.



F.

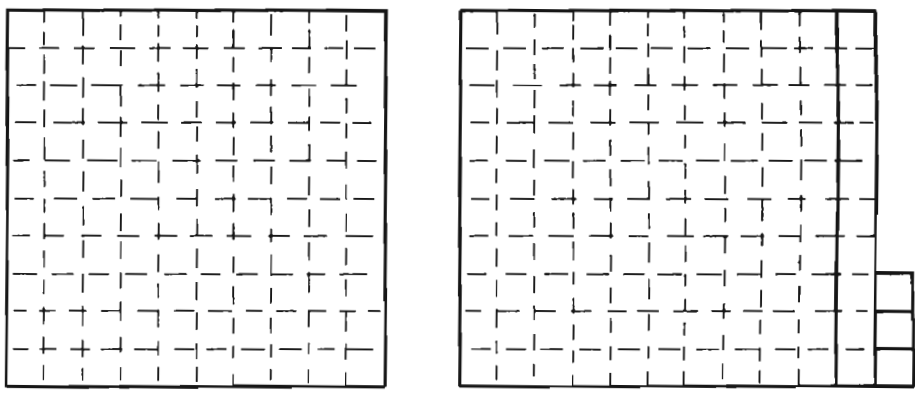
G.

H.

H. 99

I. 100

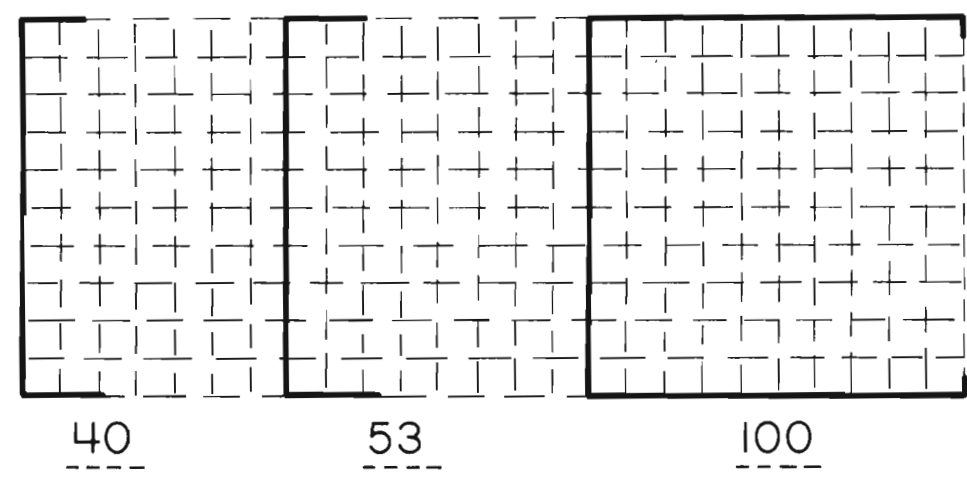
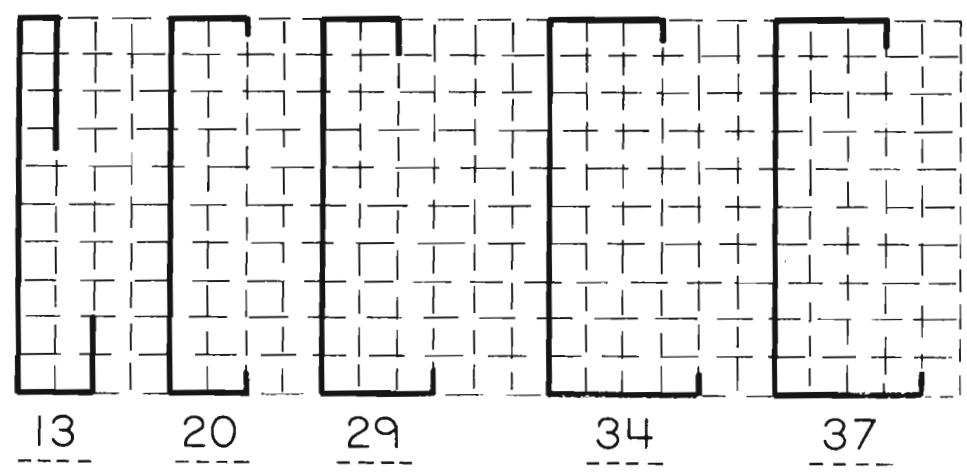
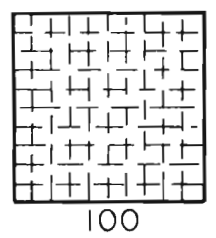
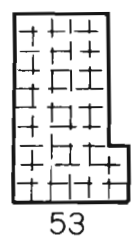
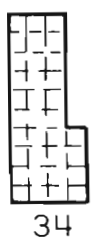
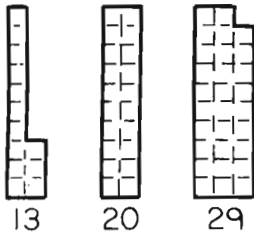
J.



I.

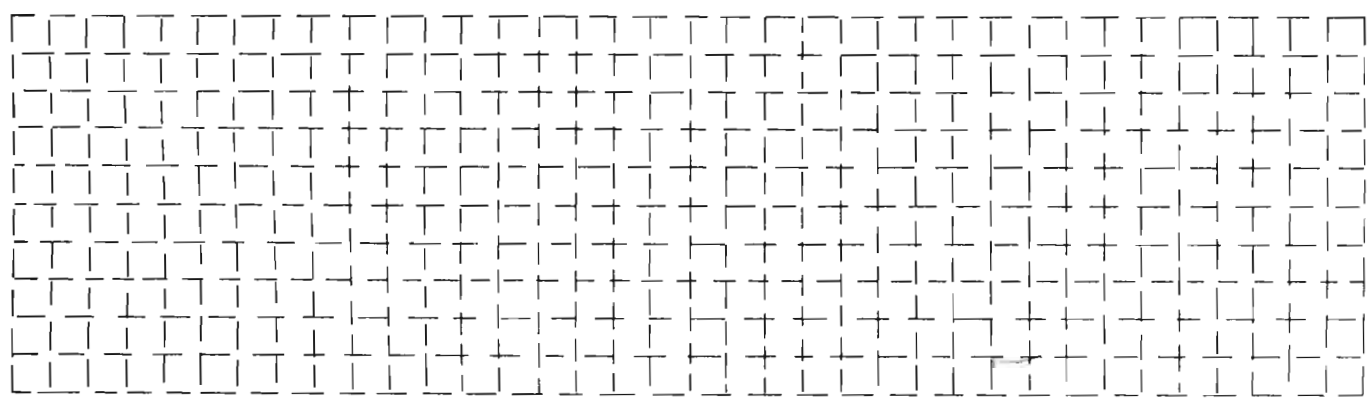
J.

one way —
 una manera —



Please draw a heavy line around
 as many blocks as you like, and write
 the number of blocks inside that line.

Favor de hacer una línea gruesa alrededor
 de cuantos cuadros usted quiera y escriba el
 número de cuadros dentro de la lí.



A.

10¢

1	0
---	---

B.

1¢

0	1
---	---

C.

11¢

1	1
---	---

D.

12¢

—	—
---	---

E.

2	2
---	---

F.

23¢

—	—
---	---

G.


3	0
---	---

H.

35¢

—	—
---	---


A.



10¢

1 dime 0 pennies



B.



¢

— dieces — centavo



C.

¢

— dime — penny



D.

¢

— diez — centavos



E.

¢

— dimes — pennies


F.

¢

— dieces — centavos

G.



¢

— dimes — pennies

H.




¢

— dieces — centavos

I.

57¢

5	7
---	---

J.

I.

¢

J.

¢

0 10

___ dimes ___ pennies

___ dimes ___ centavos

K.

11

--	--

L.

K.

L.

3 4

___ 10's ___ 1's

___ 10's ___ 1's

M.

10

--	--

N.

M.

N.

0 10

___ 10's ___ 1's

___ 10's ___ 1's

O.

12¢

1 2

1 2

Q.

12

1 2

S.

100¢

10 0

T.

O.



¢

 dimes pennies

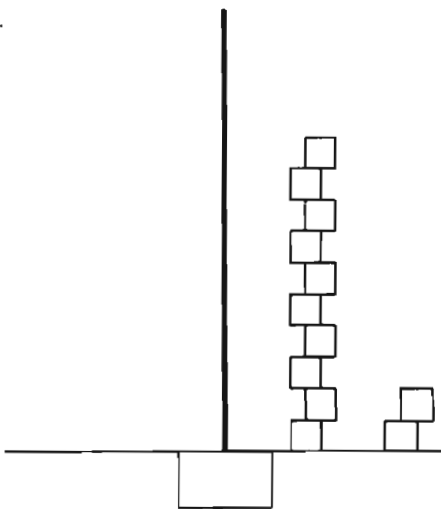
P.



¢

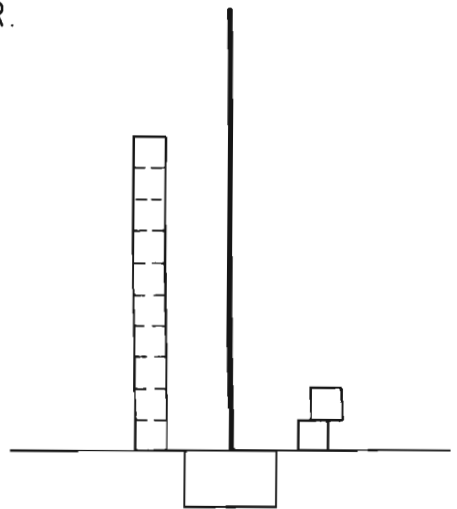
 diez centavos

Q.



 10's 1's

R.



 10's 1's

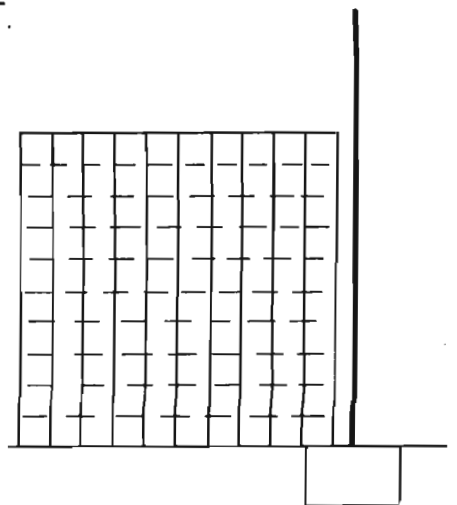
S.



¢

 dimes pennies
 dieces centavos

T.



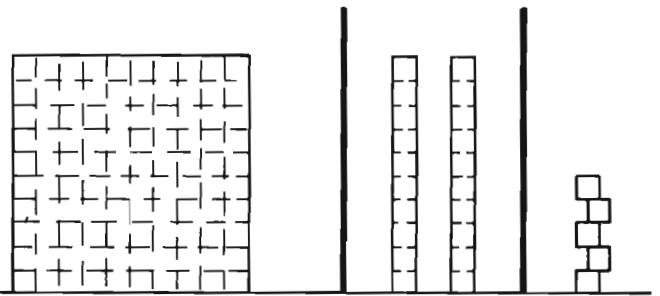
 10's 1's

U.

125

1 , 2 , 5

U.



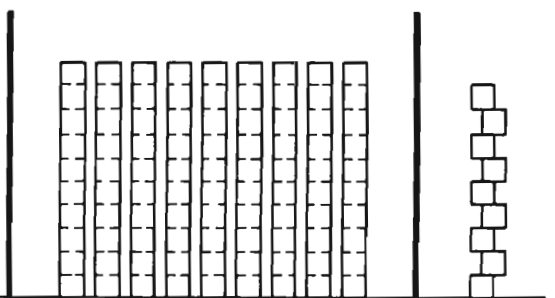
total ___ 100's ___ 10's ___ 1's

V.

99

___ , ___ , ___

V.

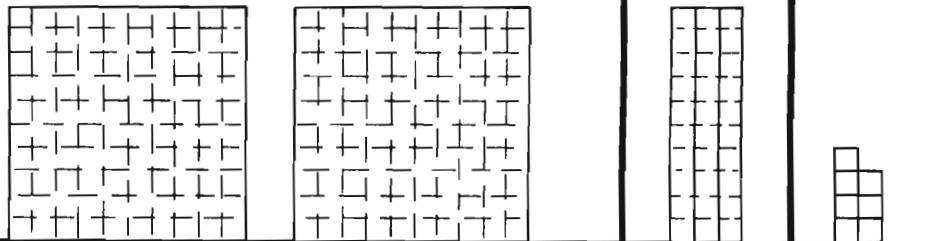


total ___ 100's ___ 10's ___ 1's

W.

2 , 3 , 7

W.



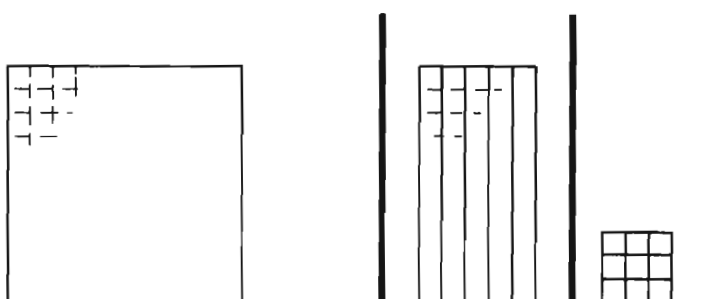
total ___ 100's ___ 10's ___ 1's

X.

159

___ , ___ , ___

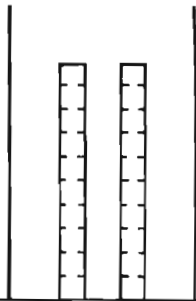
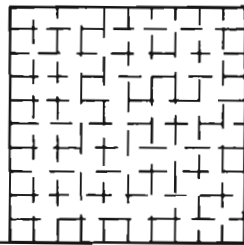
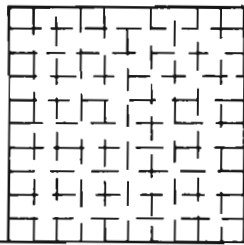
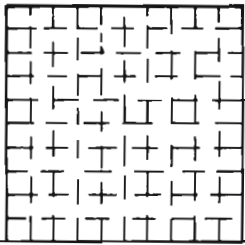
X.



total ___ 100's ___ 10's ___ 1's

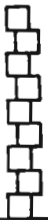
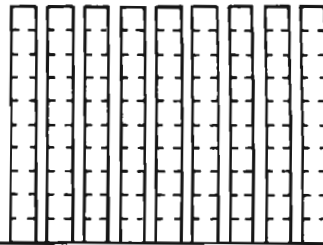
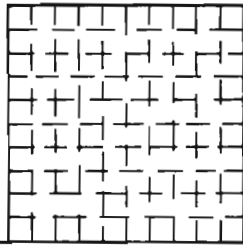
On Your Own

Usted Solo



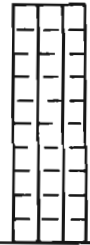
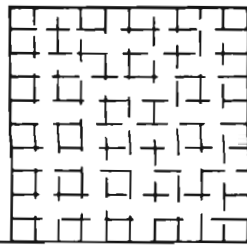
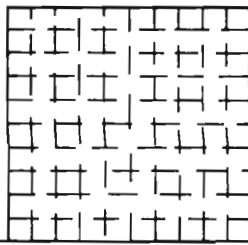
total

___ 100's..... ___ 10's..... ___ 1's



total

___ 100's..... ___ 10's..... ___ 1's



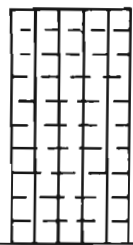
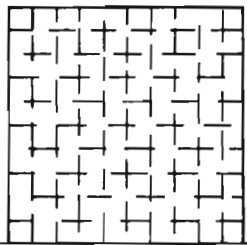
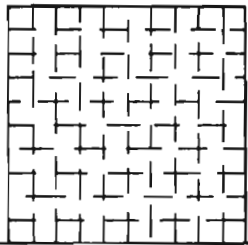
total

___ 100's..... ___ 10's..... ___ 1's



How do you feel?

¿Cómo se siente?



total

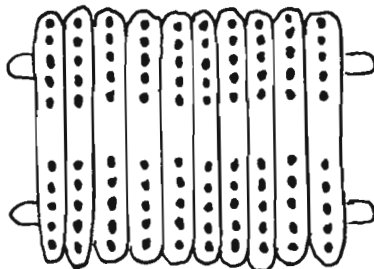
___ 100's..... ___ 10's..... ___ 1's

Dear Parent,

As you can see from the progress test on the reverse of this letter, your child has become increasingly involved with "tens." You are very likely being requested to "Listen to me count by tens," "Hear how fast I can get to a hundred," and so on.

This is important progress. We hope you can take some time to listen, to praise and to be involved in your child's understanding of our decimal system. This section represents a first formal contact with units (ones), tens and hundreds as a logical system. Its not easy for many children but is extremely important.

At school, to help in understanding this system of "tens," we often make rafts of 100 beans. You can do this at home by making ten "ten-sticks" as described in a previous letter. Laid side by side the ten sticks can then be held together by glueing two popsicle sticks across the bottom of the tens.



Save your beansticks, rafts and loose beans. They'll be useful for a long time - even to eat in hard times!

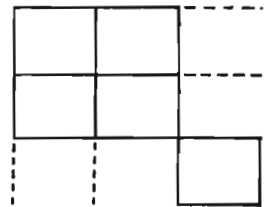
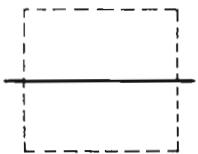
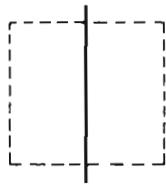
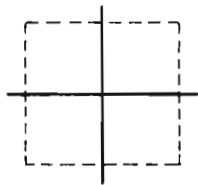
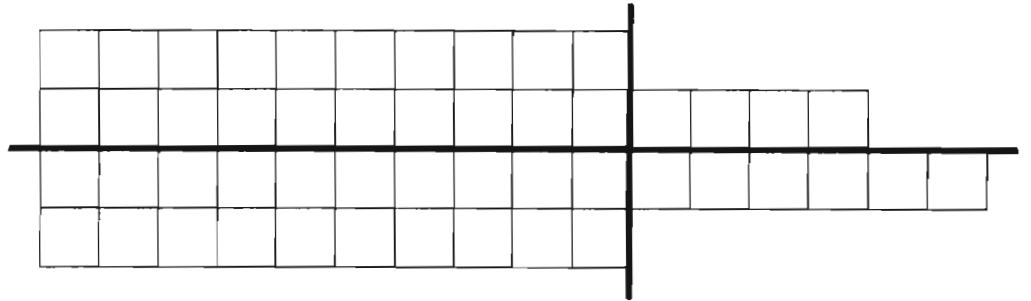
Sincerely,

20	4
20	

40

26

50

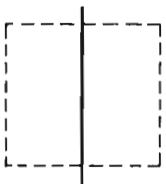
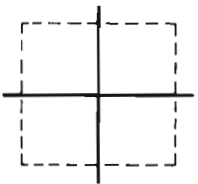
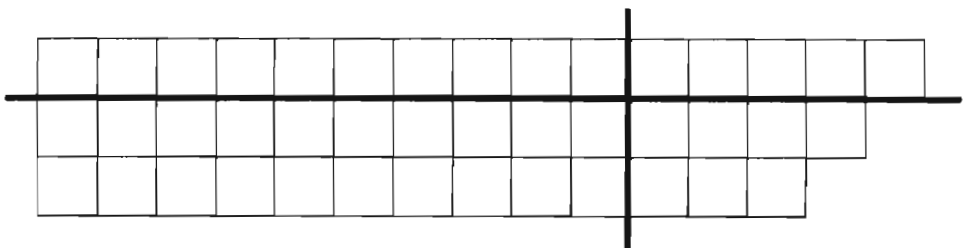


10	
20	7

30

15

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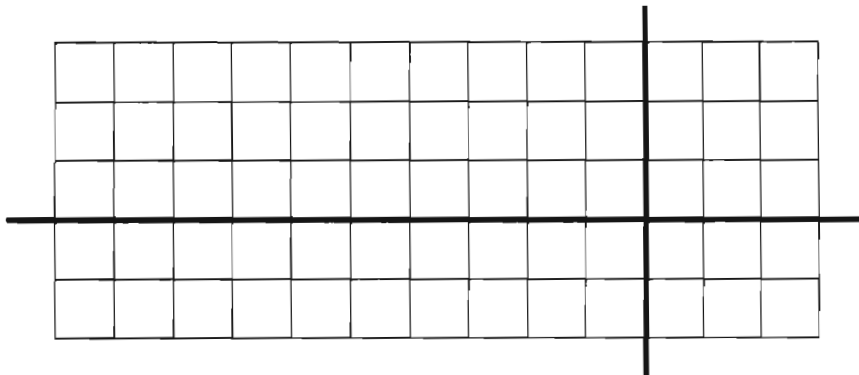


30	9
20	6

50	15
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39

65

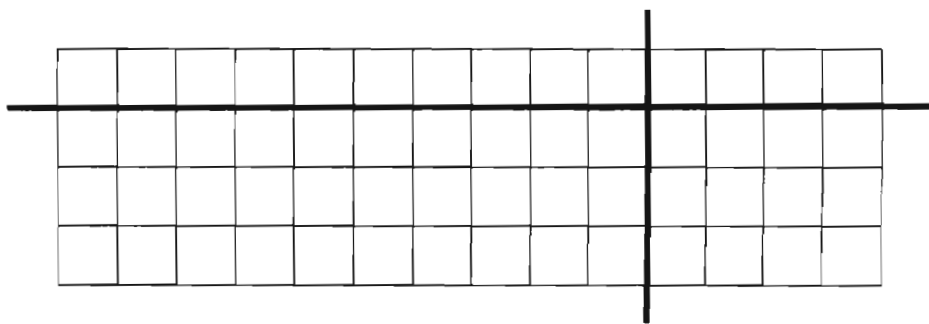


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30	9	39
20		26
50		65



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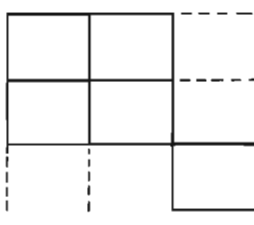
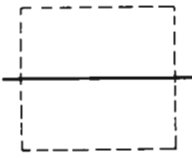
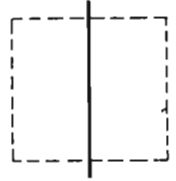
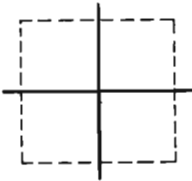
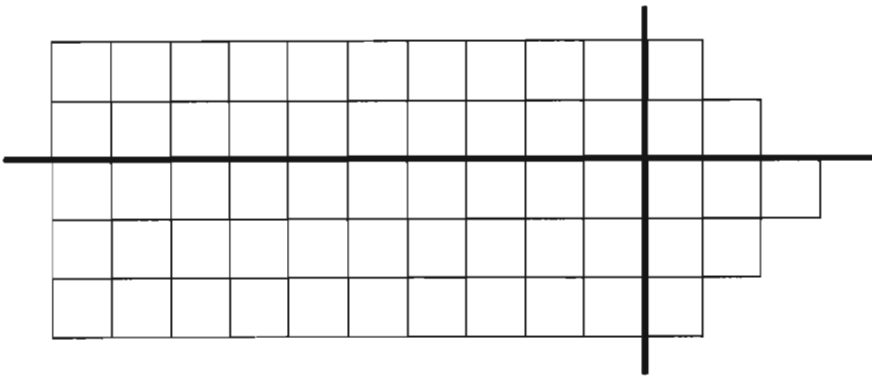
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20	3
30	6

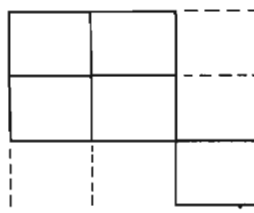
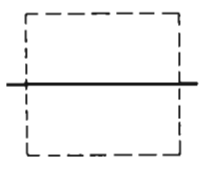
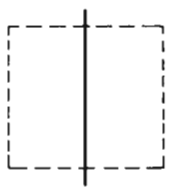
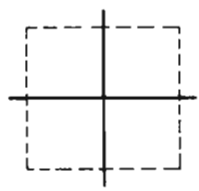
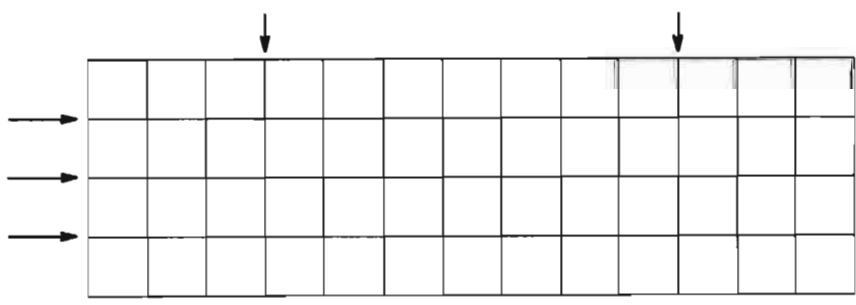
50	9
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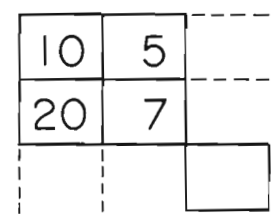
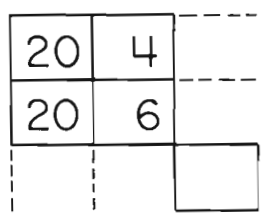
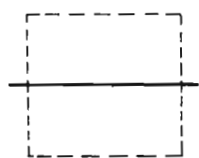
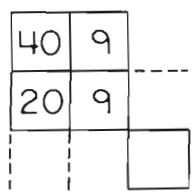
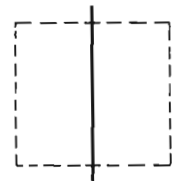
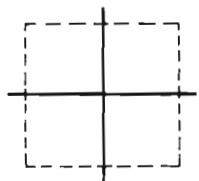
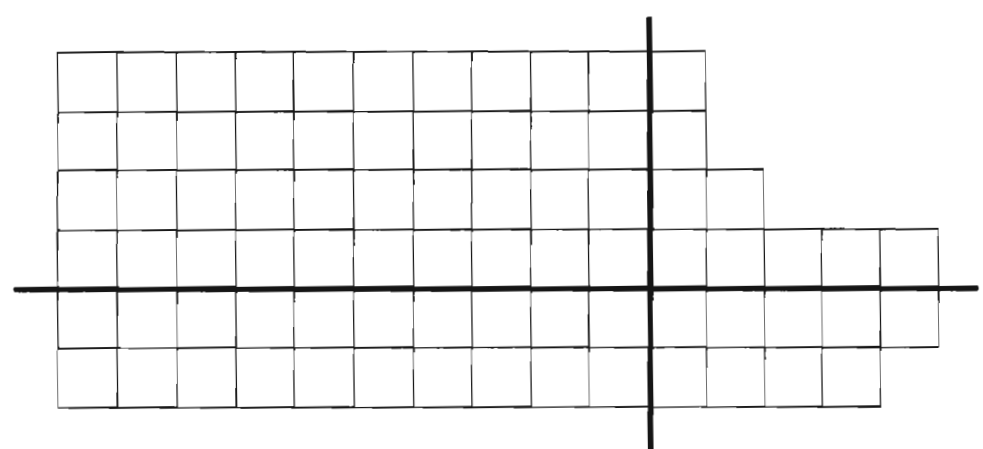
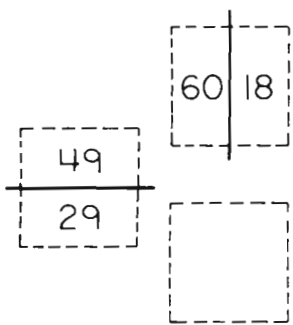
23
36

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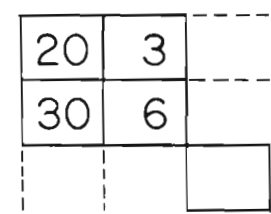
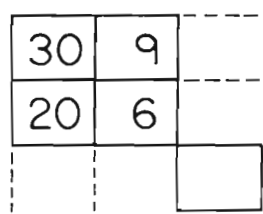


On Your Own
Usted Solo





- 50 + 9 = _____
- 40 + 10 = _____
- 60 + 18 = _____
- 30 + 12 = _____
- 50 + 15 = _____



$$\begin{array}{r} 10 \\ +40 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ +50 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ +9 \\ \hline \end{array}$$

$$\begin{array}{r} 60 \\ +18 \\ \hline \end{array}$$

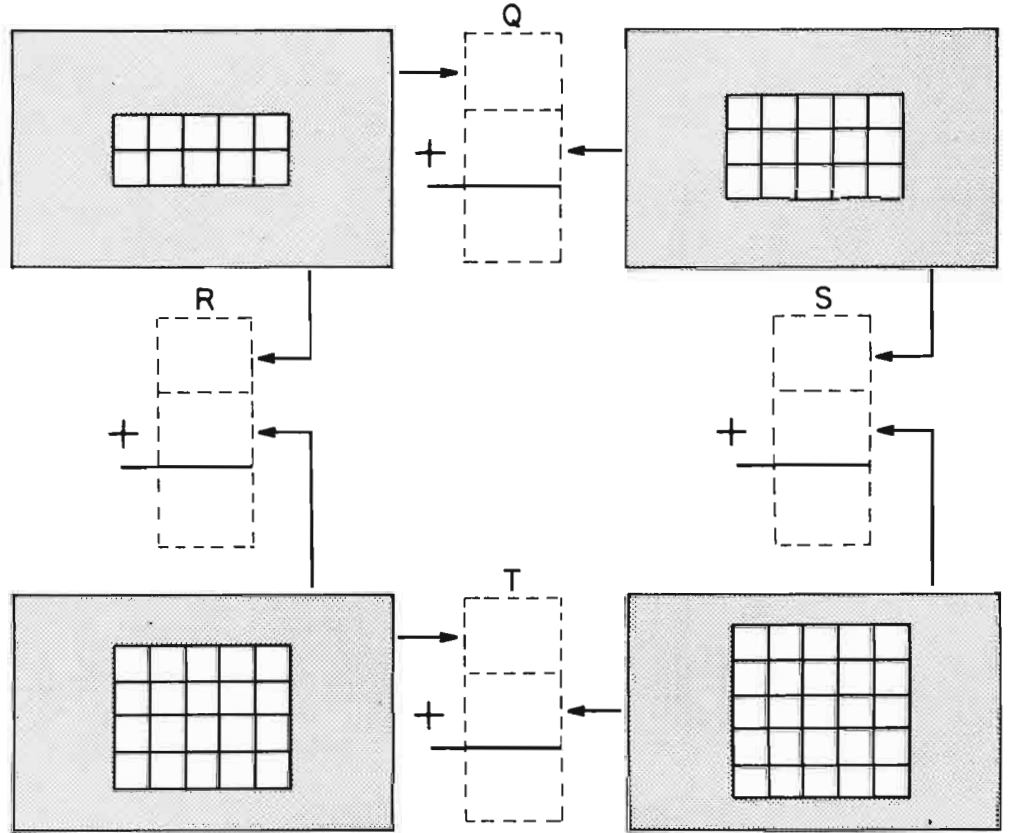
$$\begin{array}{r} 23 \\ +36 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \\ +49 \\ \hline \end{array}$$

$$\begin{array}{r} \text{Q} \\ 10 \\ + 15 \\ \hline 25 \end{array}$$

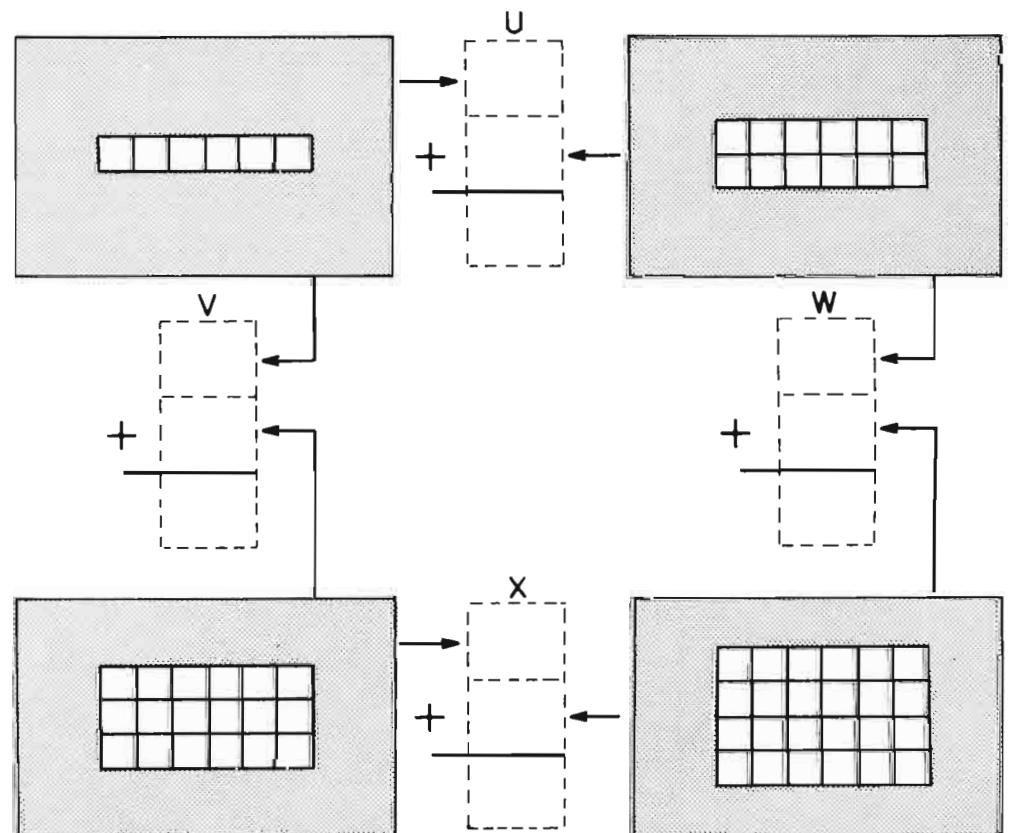
$$\begin{array}{r} \text{R} \\ 10 \\ + 20 \\ \hline 30 \end{array}$$

$$\begin{array}{r} \text{S} \\ 15 \\ + 25 \\ \hline 40 \end{array}$$

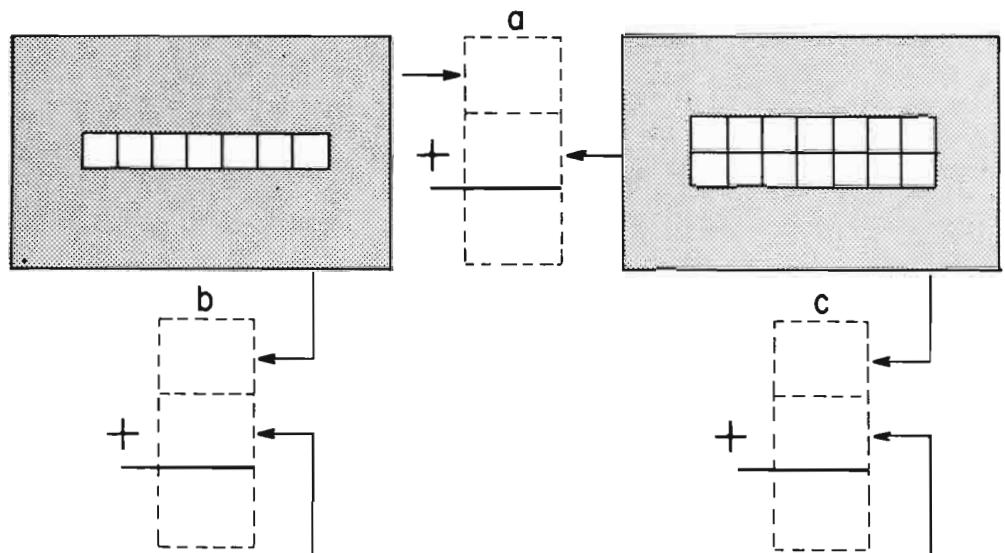


$$\begin{array}{r} \text{V} \\ 6 \\ + 18 \\ \hline 24 \end{array}$$

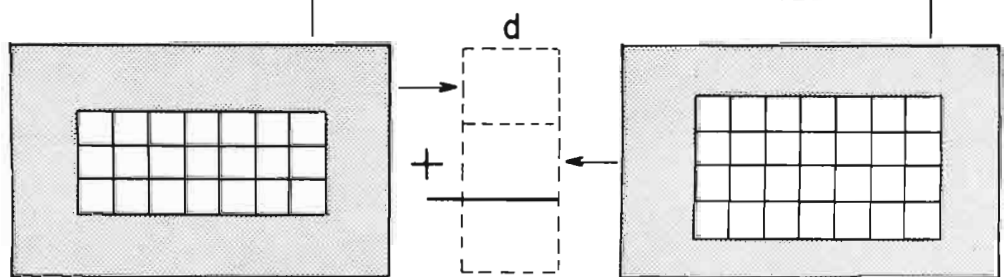
$$\begin{array}{r} \text{W} \\ 12 \\ + 24 \\ \hline 36 \end{array}$$



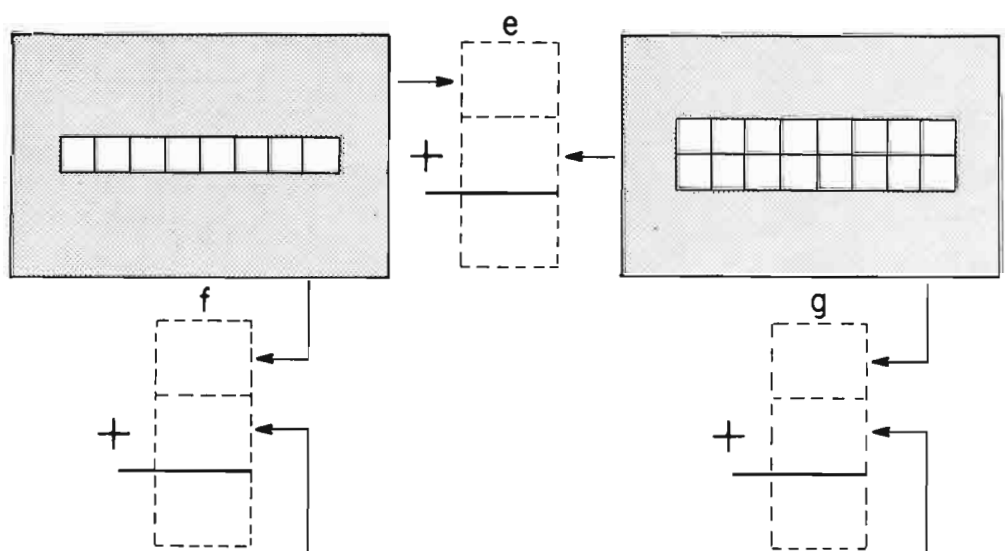
$$\begin{array}{r} \text{a} \\ \rightarrow \boxed{7} \\ + \boxed{14} \leftarrow \\ \hline \boxed{21} \end{array}$$



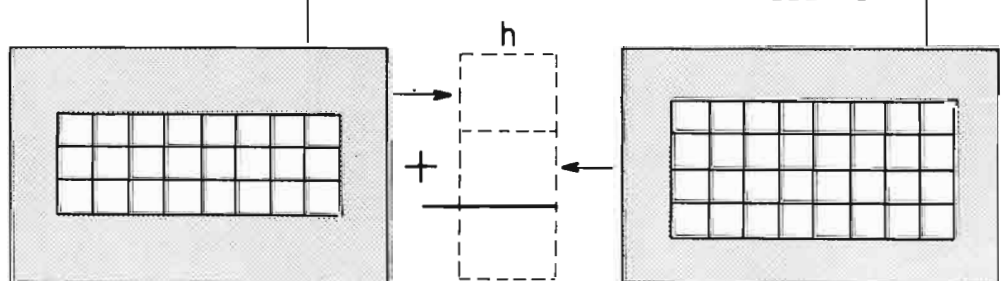
$$\begin{array}{r} \text{d} \\ \rightarrow \boxed{21} \\ + \boxed{28} \leftarrow \\ \hline \boxed{49} \end{array}$$



$$\begin{array}{r} \text{e} \\ \rightarrow \boxed{8} \\ + \boxed{16} \leftarrow \\ \hline \boxed{24} \end{array}$$



$$\begin{array}{r} \text{f} \\ \rightarrow \boxed{8} \\ + \boxed{24} \leftarrow \\ \hline \boxed{32} \end{array}$$



A.

$$\begin{array}{r} 23 \\ + 3 \\ \hline 26 \end{array}$$

$$\begin{array}{r} 23 \\ - 3 \\ \hline 20 \end{array}$$

B.

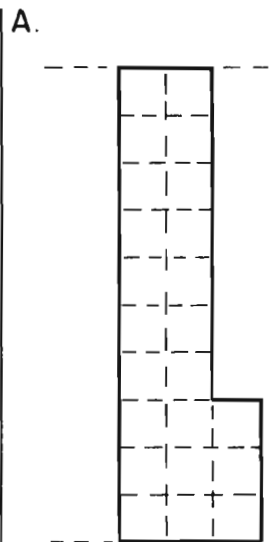
$$\begin{array}{r} 30 \\ + 2 \\ \hline 32 \end{array}$$

C.

$$\begin{array}{r} 38 \\ + 3 \\ \hline 41 \end{array}$$

D.

$$\begin{array}{r} 51 \\ - 3 \\ \hline 48 \end{array}$$

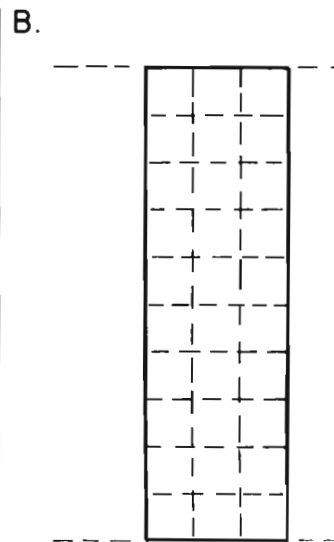


A →

$$\begin{array}{r} 23 \\ + 3 \\ \hline \end{array}$$

A →

$$\begin{array}{r} 23 \\ - 3 \\ \hline \end{array}$$

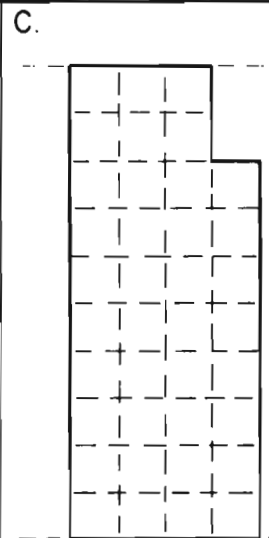


B →

$$\begin{array}{r} \\ + 2 \\ \hline \end{array}$$

B →

$$\begin{array}{r} \\ - 2 \\ \hline \end{array}$$

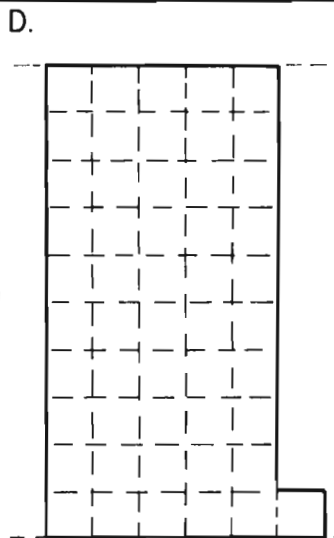


C →

$$\begin{array}{r} \\ + 3 \\ \hline \end{array}$$

C →

$$\begin{array}{r} \\ - 8 \\ \hline \end{array}$$



D →

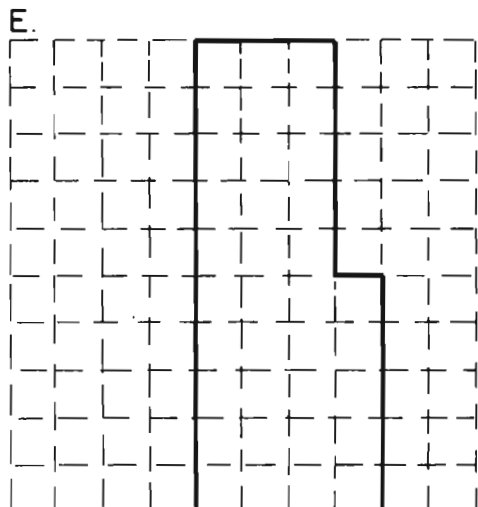
$$\begin{array}{r} \\ + 7 \\ \hline \end{array}$$

D →

$$\begin{array}{r} \\ - 3 \\ \hline \end{array}$$

Please make up your own examples

Favor de hacer sus propios ejemplos.

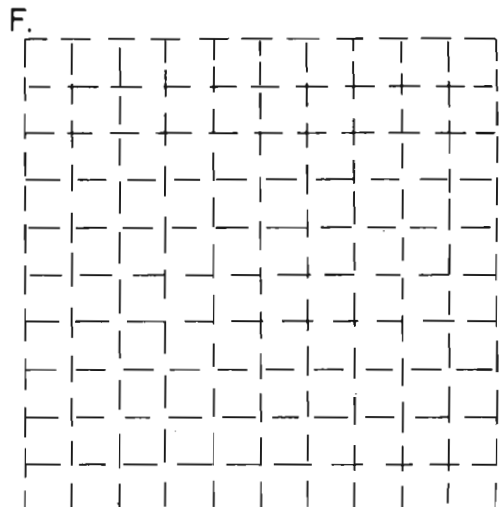


E →

$$\begin{array}{r} 35 \\ + \\ \hline \end{array}$$

E →

$$\begin{array}{r} 35 \\ - \\ \hline \end{array}$$



F →

$$\begin{array}{r} \\ + \\ \hline \end{array}$$

F →

$$\begin{array}{r} \\ - \\ \hline \end{array}$$

G.

$$\begin{array}{r} 28 \\ + 1 \\ \hline 29 \end{array}$$

H.

$$\begin{array}{r} 32 \\ - 3 \\ \hline 29 \end{array}$$

Please watch the signs
+ and -

G.

H.

Favor de fijarse en los signos
+ y -

H.

I.

I.

$$\begin{array}{r} 40 \\ - 5 \\ \hline 35 \end{array}$$

J.

$$\begin{array}{r} 47 \\ + 10 \\ \hline 67 \end{array}$$

I.

J.

J.

K.

Please make up your own examples.

K.

L.

Favor de hacer sus propios ejemplos.

L.

M.

M.

$$\begin{array}{r} 36 \\ - 5 \\ \hline 31 \end{array}$$

N.

$$\begin{array}{r} 50 \\ - 10 \\ \hline \end{array}$$

O.

$$\begin{array}{r} 44 \\ + 13 \\ \hline 57 \end{array}$$

P.

$$\begin{array}{r} 39 \\ + 2 \\ \hline \end{array}$$

Please watch the signs.

M.

O.

Favor de fijarse en los signos.

N.

P.

Please make up your own examples.

Q.

Favor de hacer sus propios ejemplos.

R.

S.

$$\begin{array}{r} 29 \\ - 8 \\ \hline 21 \end{array}$$

T.

$$\begin{array}{r} 45 \\ + 5 \\ \hline 50 \end{array}$$

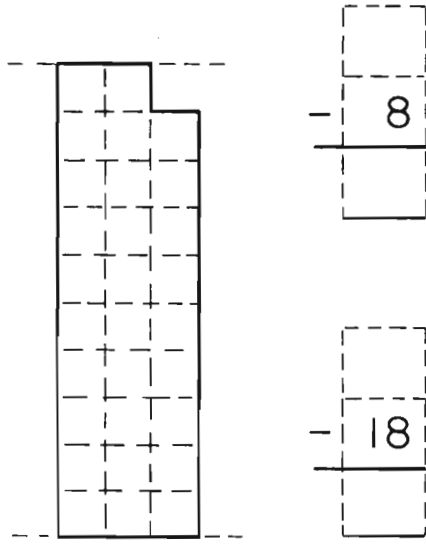
U.

$$\begin{array}{r} 26 \\ + 10 \\ \hline 36 \end{array}$$

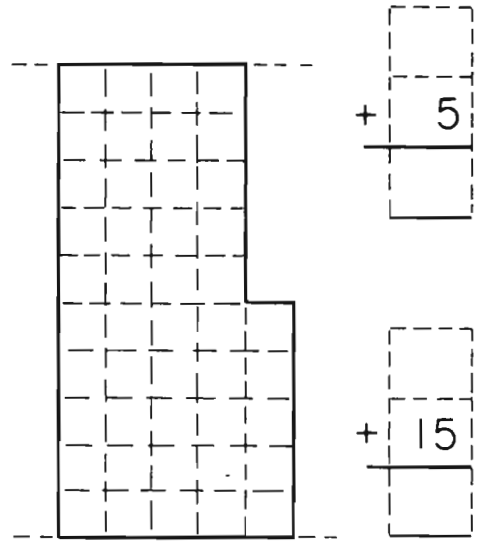
V.

$$\begin{array}{r} 35 \\ - 9 \\ \hline 26 \end{array}$$

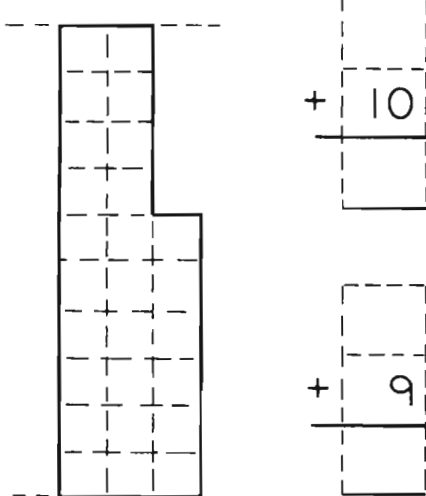
S.



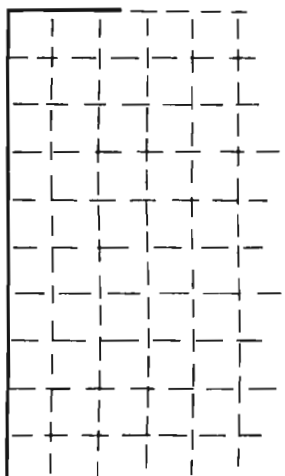
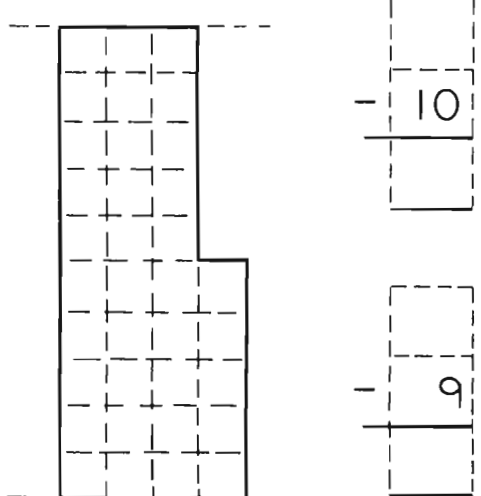
T.



U.



V.



$$\begin{array}{r} 38 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 38 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 47 \\ + \\ \hline 57 \end{array}$$

$$\begin{array}{r} 50 \\ - \\ \hline 40 \end{array}$$

$$\begin{array}{r} \text{---} \\ + 5 \\ \hline 45 \end{array}$$

$$\begin{array}{r} 40 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ + \\ \hline 47 \end{array}$$

$$\begin{array}{r} 44 \\ + 13 \\ \hline \end{array}$$

$$\begin{array}{r} \text{---} \\ - 10 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 29 \\ - \\ \hline 11 \end{array}$$

A.

$$\begin{array}{r} 19 \\ + 4 \\ \hline 23 \end{array}$$

B.

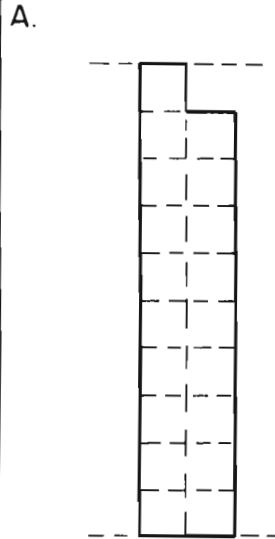
$$\begin{array}{r} 23 \\ - 15 \\ \hline 8 \end{array}$$

C.

$$\begin{array}{r} 30 \\ - 17 \\ \hline 13 \end{array}$$

D.

$$\begin{array}{r} 35 \\ + 15 \\ \hline 50 \end{array}$$

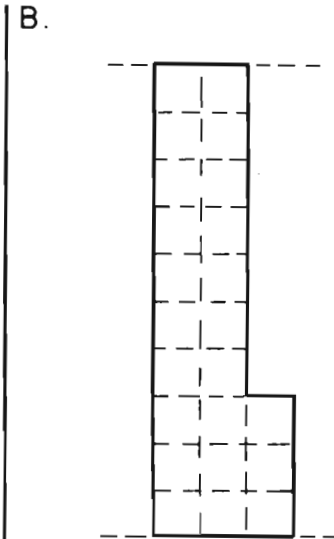


A →

$$\begin{array}{r} 19 \\ + 4 \\ \hline \end{array}$$

A →

$$\begin{array}{r} \\ + 14 \\ \hline \end{array}$$

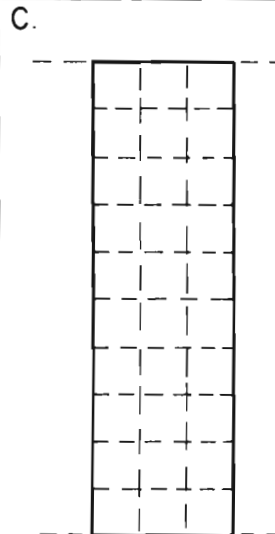


B →

$$\begin{array}{r} \\ - 5 \\ \hline \end{array}$$

B →

$$\begin{array}{r} \\ - 15 \\ \hline \end{array}$$

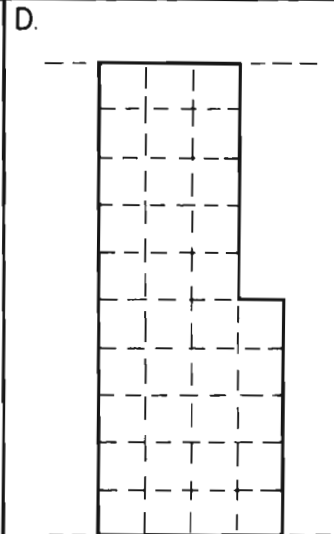


C →

$$\begin{array}{r} \\ - 7 \\ \hline \end{array}$$

C →

$$\begin{array}{r} \\ - 17 \\ \hline \end{array}$$



D →

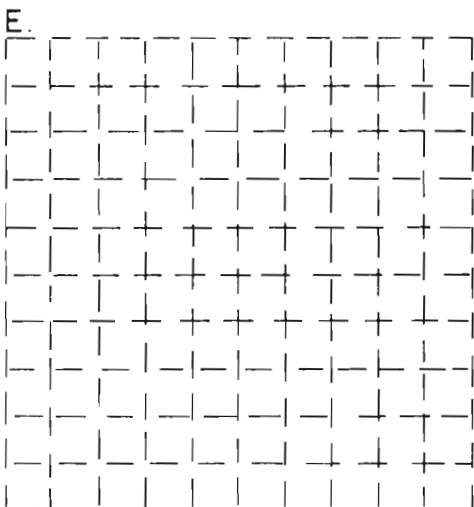
$$\begin{array}{r} \\ + 10 \\ \hline \end{array}$$

D →

$$\begin{array}{r} \\ + 15 \\ \hline \end{array}$$

Please make up your own examples.

Favor de hacer sus propios ejemplos.

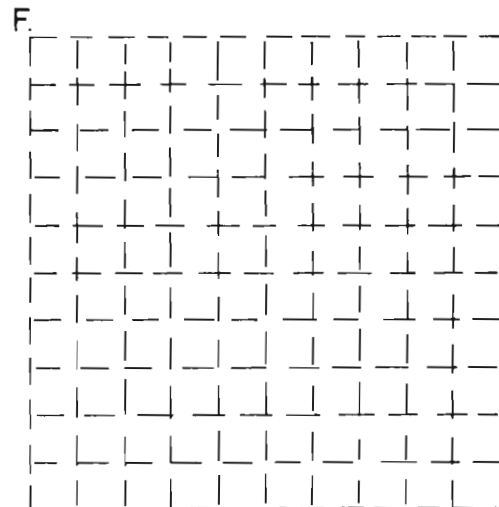


E →

$$\begin{array}{r} \\ \hline \end{array}$$

E →

$$\begin{array}{r} \\ \hline \end{array}$$



F →

$$\begin{array}{r} \\ \hline \end{array}$$

F →

$$\begin{array}{r} \\ \hline \end{array}$$

G.

$$\begin{array}{r} 31 \\ -10 \\ \hline 21 \end{array}$$

H.

$$\begin{array}{r} 14 \\ +26 \\ \hline 40 \end{array}$$

I.

$$\begin{array}{r} 40 \\ -29 \\ \hline 11 \end{array}$$

J.

G.

G.

H.

H.

I.

I.

J.

J.

Please make up your own examples.

Favor de hacer sus propios ejemplos.

K.

K.

L.

L.

M.

$$\begin{array}{r} 26 \\ + 5 \\ \hline 31 \end{array}$$

N.

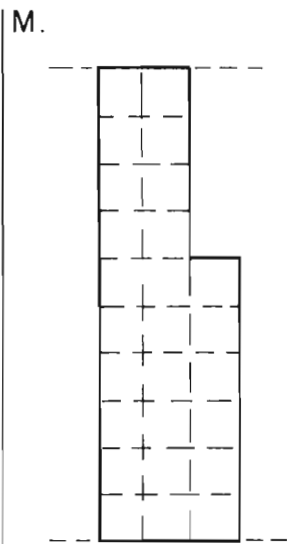
$$\begin{array}{r} 32 \\ - 2 \\ \hline 30 \end{array}$$

O.

$$\begin{array}{r} 48 \\ + 10 \\ \hline 58 \end{array}$$

P.

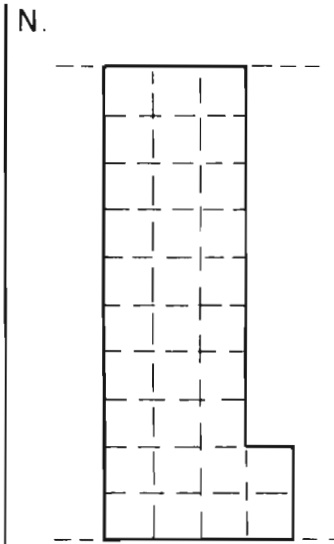
$$\begin{array}{r} 60 \\ + 20 \\ \hline 80 \end{array}$$



M →

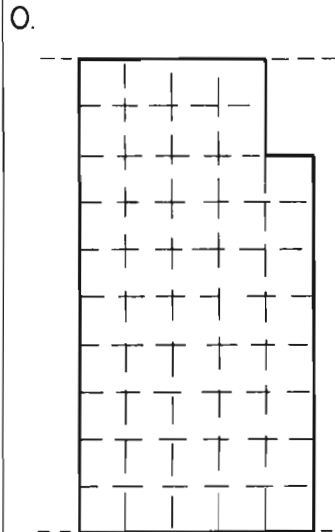
$$\begin{array}{r} \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} \\ + 15 \\ \hline \end{array}$$



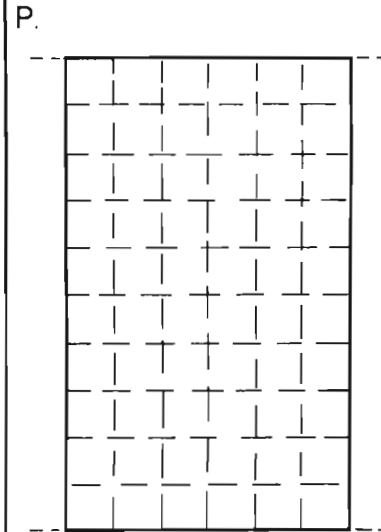
$$\begin{array}{r} \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} \\ - 12 \\ \hline \end{array}$$



$$\begin{array}{r} \\ + 10 \\ \hline \end{array}$$

$$\begin{array}{r} \\ + 13 \\ \hline \end{array}$$

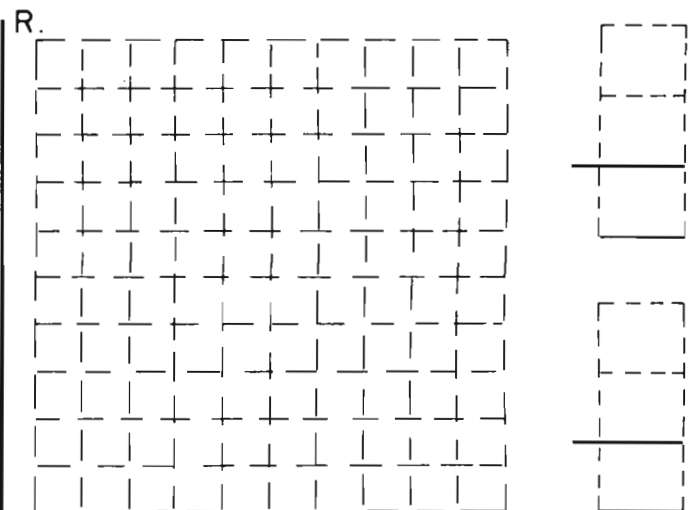
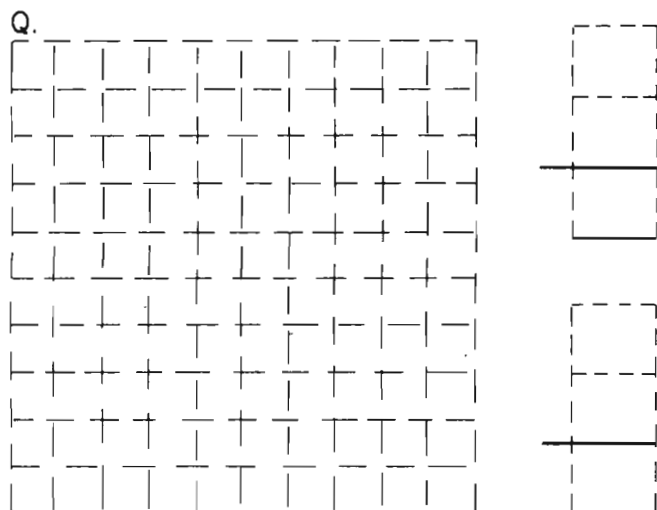


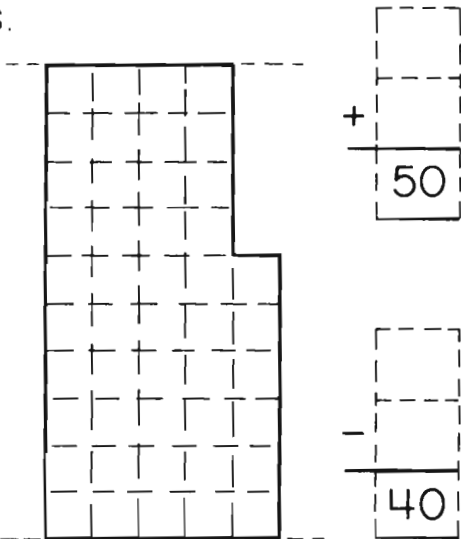
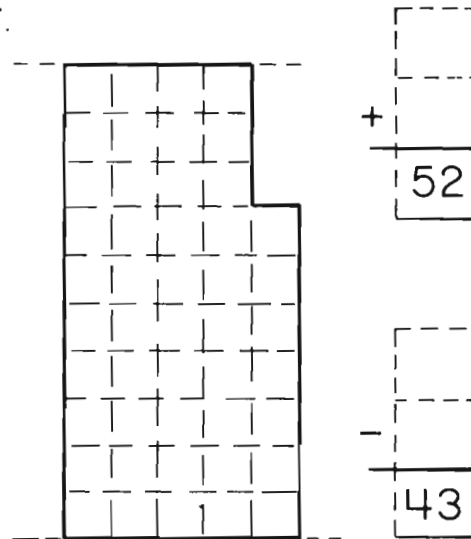
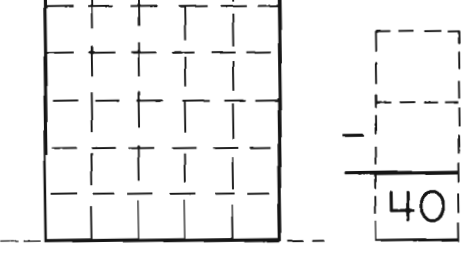
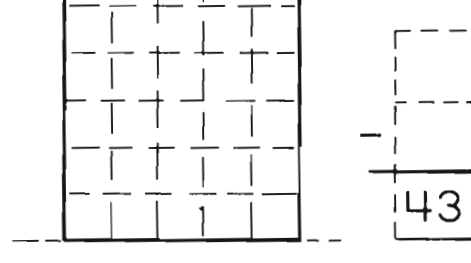
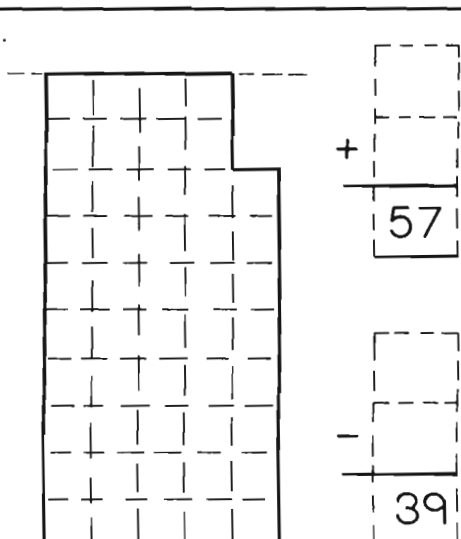
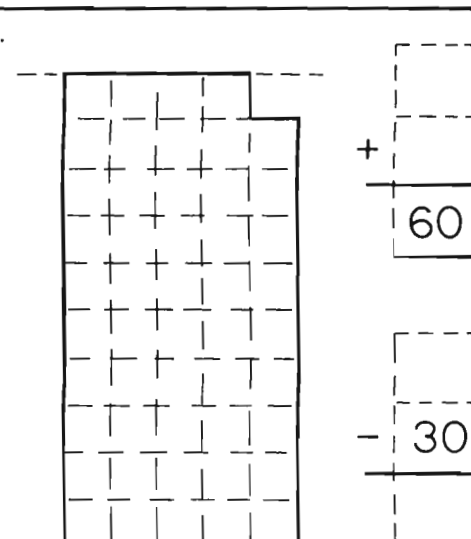
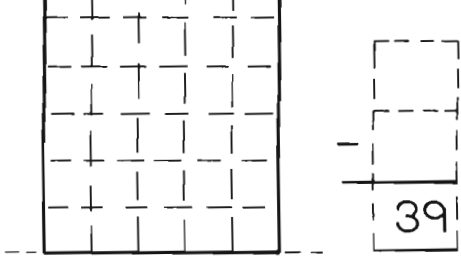
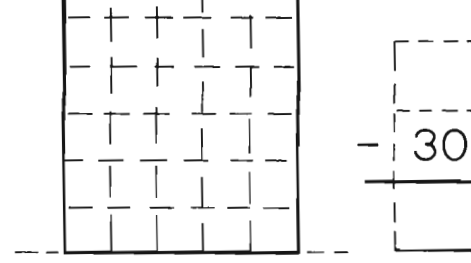
$$\begin{array}{r} \\ + 20 \\ \hline \end{array}$$

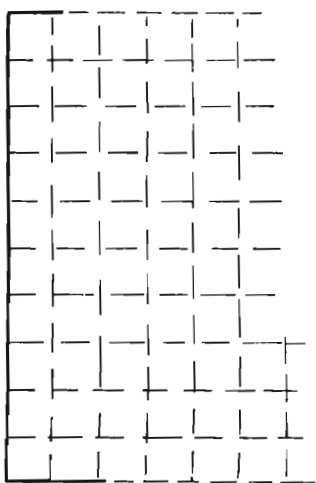
$$\begin{array}{r} \\ - 50 \\ \hline \end{array}$$

Please make up your own examples.

Favor de hacer sus propios ejemplos.

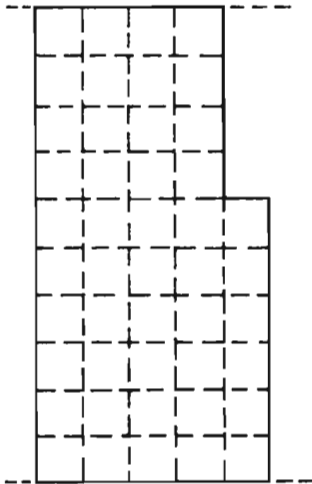


<p>S.</p> $\begin{array}{r} 46 \\ + 4 \\ \hline 50 \end{array}$	<p>S.</p> 	<p>T.</p> 
<p>T.</p> $\begin{array}{r} 47 \\ + 5 \\ \hline 52 \end{array}$		
<p>U.</p> $\begin{array}{r} 48 \\ - 9 \\ \hline 39 \end{array}$	<p>U.</p> 	<p>V.</p> 
<p>V.</p> $\begin{array}{r} 49 \\ + 11 \\ \hline 60 \end{array}$		



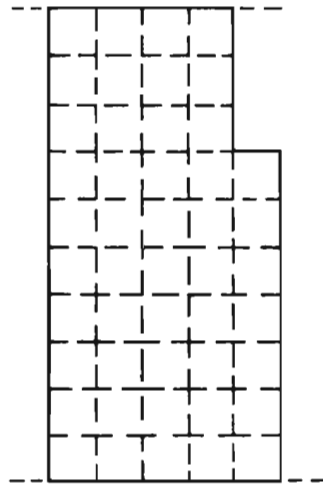
$\begin{array}{r} 19 \\ + 4 \\ \hline \end{array}$	$\begin{array}{r} 30 \\ - \\ \hline 23 \end{array}$	$\begin{array}{r} 35 \\ + \\ \hline 45 \end{array}$	$\begin{array}{r} -10 \\ - \\ \hline 21 \end{array}$	$\begin{array}{r} 47 \\ + \\ \hline 52 \end{array}$
$\begin{array}{r} + 6 \\ \hline 19 \end{array}$	$\begin{array}{r} 23 \\ - 5 \\ \hline \end{array}$	$\begin{array}{r} -50 \\ - \\ \hline 10 \end{array}$	$\begin{array}{r} 48 \\ + 13 \\ \hline \end{array}$	$\begin{array}{r} 40 \\ - 29 \\ \hline \end{array}$

On Your Own
Usted Solo



$$\begin{array}{r} \square \\ + \square \\ \hline 50 \end{array}$$

$$\begin{array}{r} \square \\ - \square \\ \hline 40 \end{array}$$

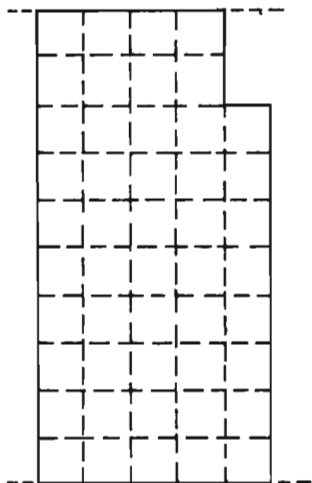


$$\begin{array}{r} \square \\ + \square \\ \hline 52 \end{array}$$

$$\begin{array}{r} \square \\ - \square \\ \hline 43 \end{array}$$

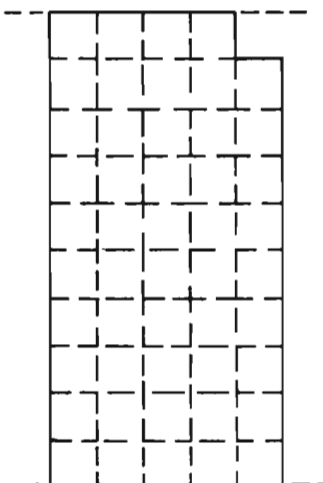
$$\begin{array}{r} 30 \\ - \quad \\ \hline 23 \end{array}$$

$$\begin{array}{r} 40 \\ - 29 \\ \hline \end{array}$$



$$\begin{array}{r} \square \\ + \square \\ \hline 57 \end{array}$$

$$\begin{array}{r} \square \\ - \square \\ \hline 39 \end{array}$$

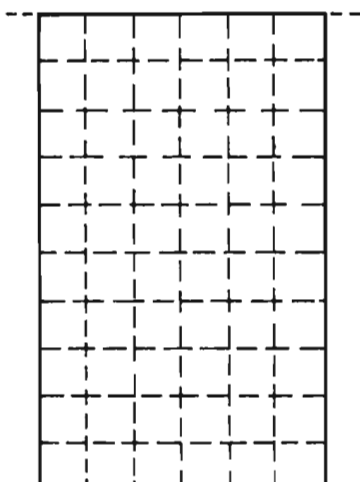


$$\begin{array}{r} \square \\ + \square \\ \hline 60 \end{array}$$

$$\begin{array}{r} \square \\ - 30 \\ \hline \square \end{array}$$

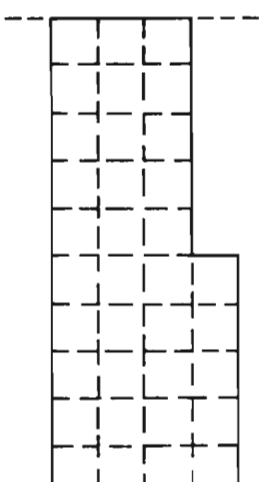
$$\begin{array}{r} - 10 \\ \quad \\ \hline 21 \end{array}$$

$$\begin{array}{r} 48 \\ + 13 \\ \hline \end{array}$$



$$\begin{array}{r} \square \\ + 20 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ - 50 \\ \hline \square \end{array}$$



$$\begin{array}{r} \square \\ + 10 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ + 15 \\ \hline \square \end{array}$$



How do you feel?
¿Cómo se siente?

Dear Parent,

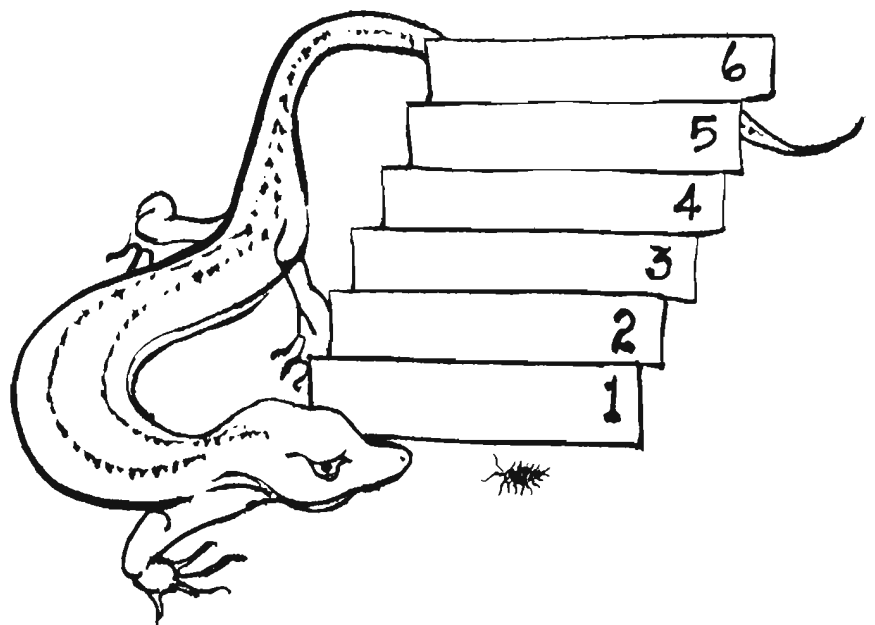
When I look at all the material we've covered in this book it makes my head swim a little, and it makes me pause. It makes me stop and wonder again how all of us, you, your child and I, are feeling about math; especially how your child is feeling. And it makes me realize again how vital these feelings are. So let's re-examine.

An important goal of CDA math is "friendliness with numbers." If a child feels good about numbers, feels confident in using them, feels comfortable in talking about them, then that child is going to perform well in math. And that performance will include practical, daily use of numbers as well as success in achievement tests. CDA experience has shown that effective arithmetic learning works that way.

So if your child still wants to use counters, beansticks, or any other "real things" for working math problems, that's great. Keep those "things" handy and let the child decide when to put them aside. If your child is happy to work now with just pictures of objects or just numbers, then that's fine also. Each child follows a different path and we try to allow for that.

Completing this book is a major sort of triumph for your child. I've tried to communicate that and I'm sure you will, too.

Sincerely,



this
book
belongs
to

este
libro
es de

