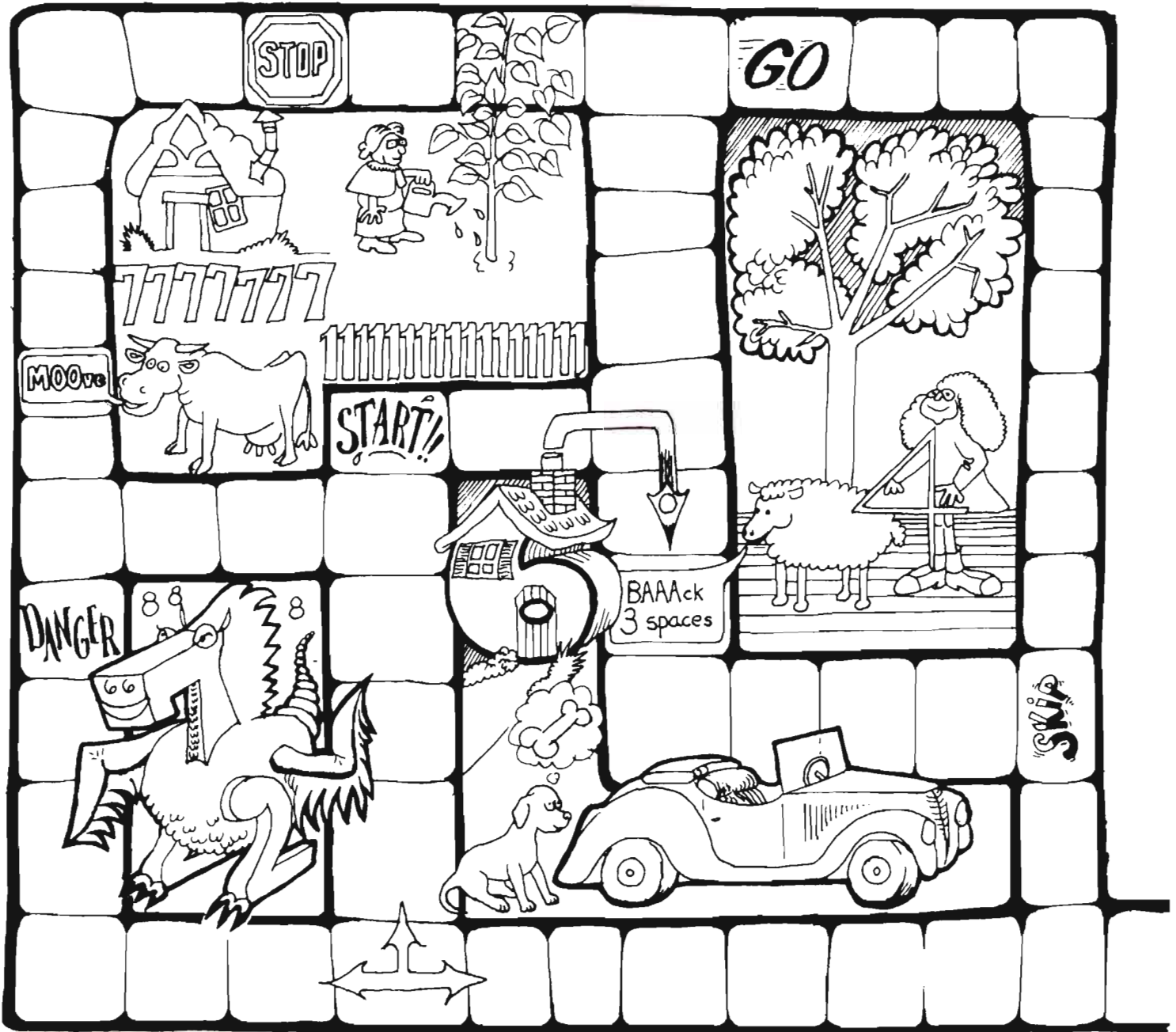




# Individualized Computation



*answers & annotations*



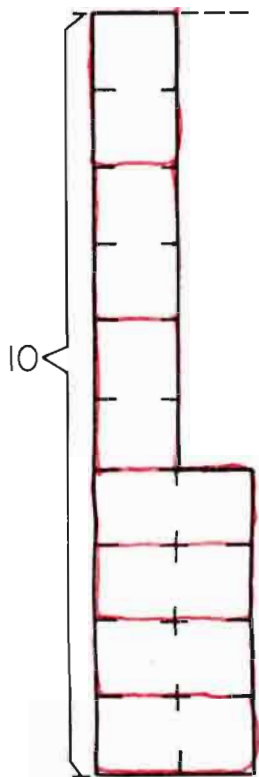
Cover Art  
 The Learning Community Alternative School of Ron Slayen  
 and Joyce Vandever at Del Rey Woods School  
 Art Staff  
 DENIS MURPHY

Editor and General Manager  
 ROBERT BECK  
 Art and Production Manager  
 LIESELOTTE ESSER

© 1974, CURRICULUM DEVELOPMENT ASSOCIATES, INC.  
 787 Foam Street  
 Monterey, CA 93940  
 Suite 414, 1211 Conn. Ave., NW  
 Washington, DC 20036

FENCING

CERCANDO

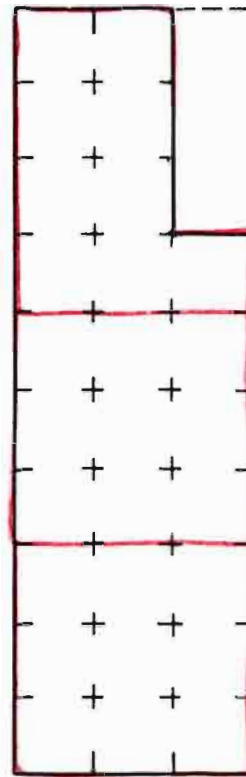


$$\begin{array}{r} 7 \text{ (2's)} \\ \hline 14 \end{array}$$

$$\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array} \quad \begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$$

$$2 \overline{) 14} \begin{array}{r} 7 \\ \hline \end{array}$$

$$7 \overline{) 14} \begin{array}{r} 2 \\ \hline \end{array}$$



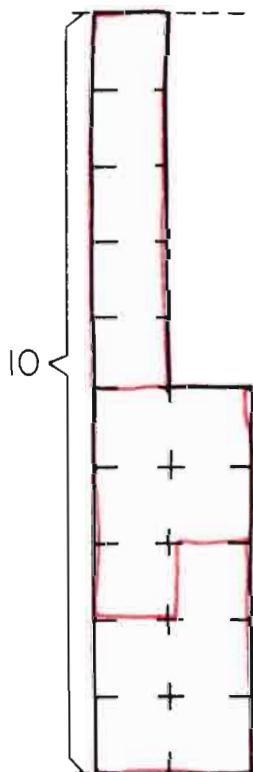
$$\begin{array}{r} 3 \text{ (9's)} \\ \hline 27 \end{array}$$

$$\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array} \quad \begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$$

$$9 \overline{) 27} \begin{array}{r} 3 \\ \hline \end{array}$$

$$3 \overline{) 27} \begin{array}{r} 9 \\ \hline \end{array}$$

The child is to draw lines ("a fence") around the number of squares indicated in the circles. To the left of the circled number the student writes the number of fenced groups, and to the right, the total number of squares. All squares must be enclosed within a fence.

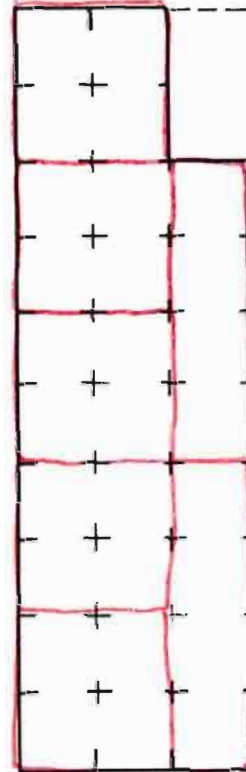


$$\begin{array}{r} 3 \text{ (5's)} \\ \hline 15 \end{array}$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array} \quad \begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$$

$$5 \overline{) 15} \begin{array}{r} 3 \\ \hline \end{array}$$

$$3 \overline{) 15} \begin{array}{r} 5 \\ \hline \end{array}$$



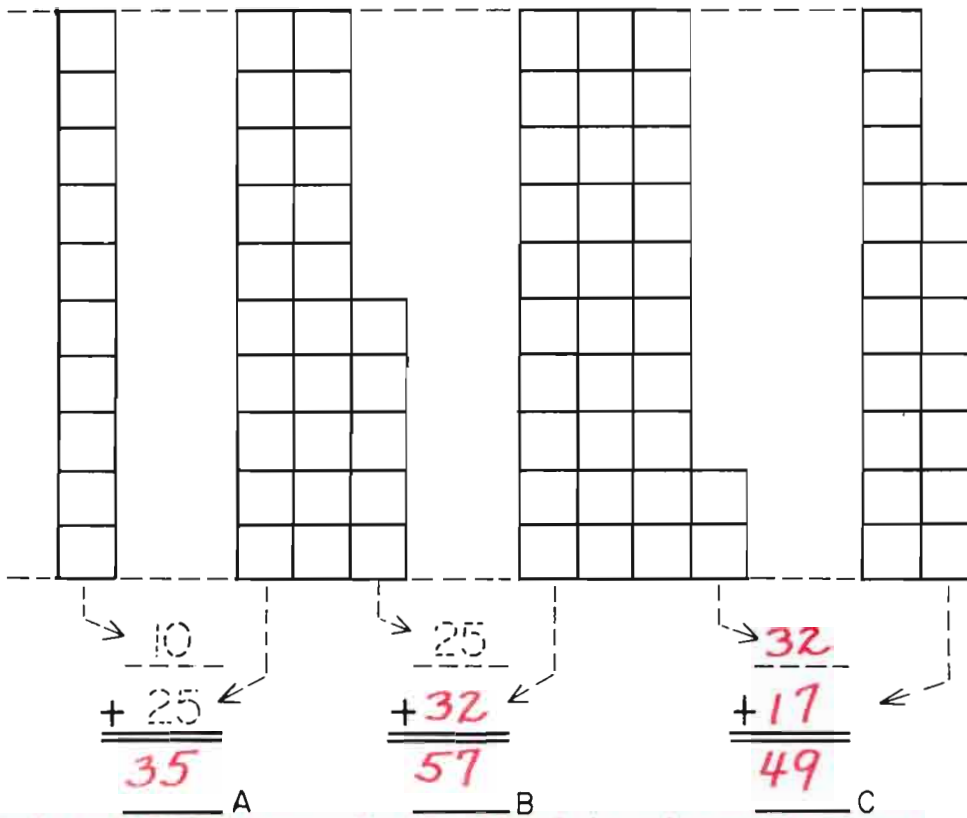
$$\begin{array}{r} 7 \text{ (4's)} \\ \hline 28 \end{array}$$

$$\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array} \quad \begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$$

$$4 \overline{) 28} \begin{array}{r} 7 \\ \hline \end{array}$$

$$7 \overline{) 28} \begin{array}{r} 4 \\ \hline \end{array}$$

Related examples  
Ejemplos relacionados



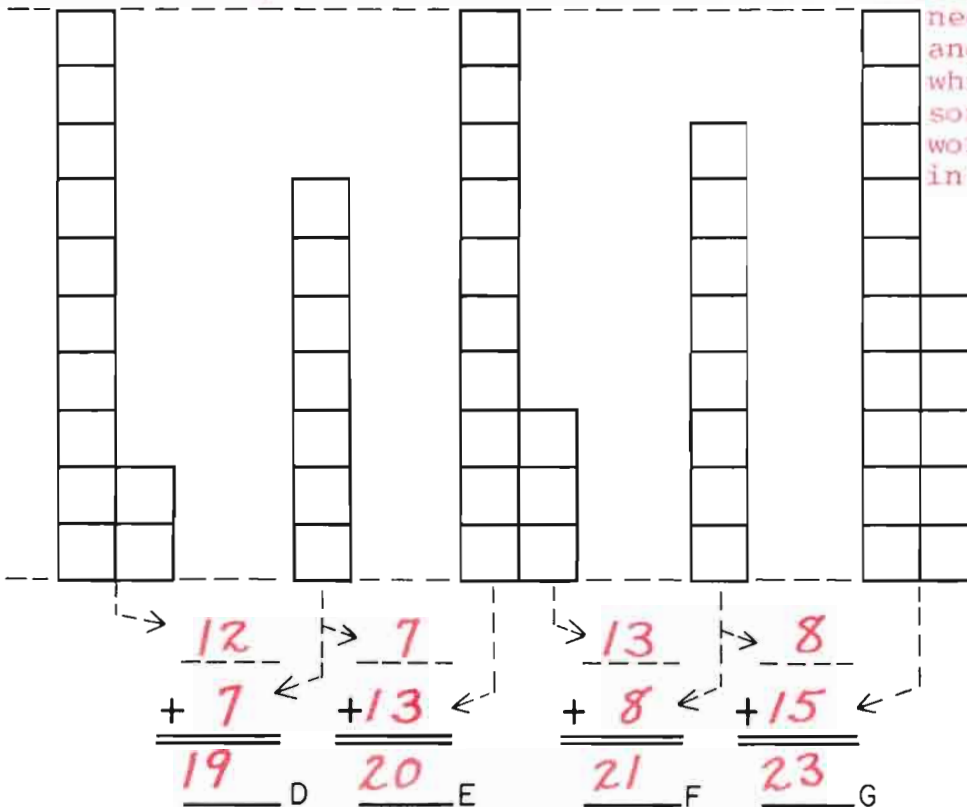
The child is to fill in the numbers from the representations and then perform the addition. You can point out that the squares are stacked by tens and ones, to encourage on.

10  
+ 15  
---  
25

15  
+ 15  
---  
30

12  
+ 7  
---  
19

Related Examples: Each addend is pictured somewhere on the page so the child has a representation to refer to. Some children may still need counters and beansticks, of course, but some will be working purely in the abstract.



12  
+ 8  
---  
20

12  
+ 9  
---  
21

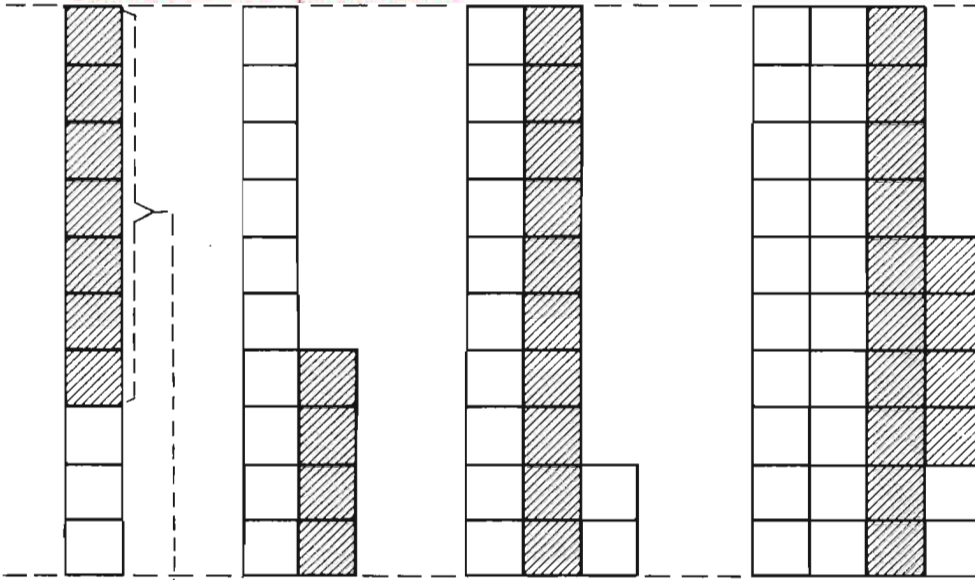
19  
+ 2  
---  
21

A	B	C
35	57	52
32	45	49

D	E	F	G
15	20	19	23
19	23	21	25

See also: Developing Insights pp. 61-67  
Drill and Practice pp. 88-93  
Book C Patterns and Problems pp. 28, 35

Basic procedure introduced in Book A2 for representational problems.



$$\begin{array}{r} 10 \\ - 7 \\ \hline 3 \end{array}$$

3 A.

$$\begin{array}{r} 14 \\ - 4 \\ \hline 10 \end{array}$$

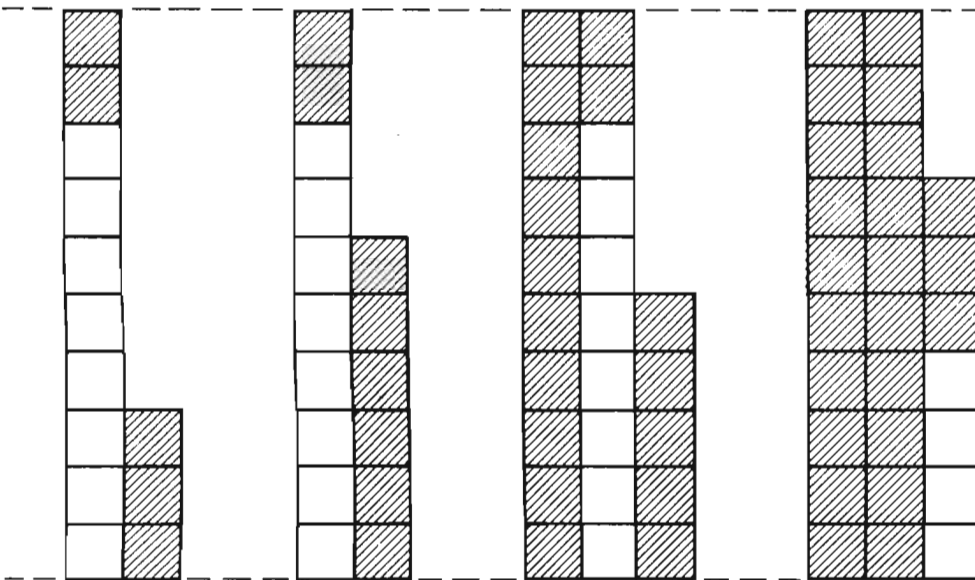
10 B.

$$\begin{array}{r} 22 \\ - 10 \\ \hline 12 \end{array}$$

12 C.

$$\begin{array}{r} 36 \\ - 14 \\ \hline 22 \end{array}$$

22 D.



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

8 E.

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

8 F.

$$\begin{array}{r} 25 \\ - 17 \\ \hline 8 \end{array}$$

8 G.

$$\begin{array}{r} 27 \\ - 23 \\ \hline 4 \end{array}$$

4 H.

Related examples  
Ejemplos relacionados

The child may self-check using beansticks and beans.

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

$$\begin{array}{r} 25 \\ - 6 \\ \hline 19 \end{array}$$

$$\begin{array}{r} 25 \\ - 16 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 35 \\ - 16 \\ \hline 19 \end{array}$$

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

$$\begin{array}{r} 35 \\ - 27 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 45 \\ - 27 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 45 \\ - 28 \\ \hline 17 \end{array}$$

$$\begin{array}{r} 45 \\ - 29 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 55 \\ - 29 \\ \hline 26 \end{array}$$

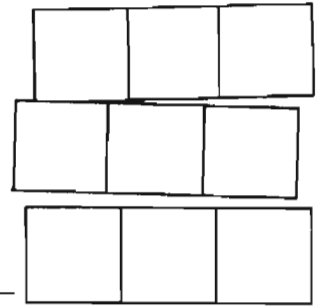
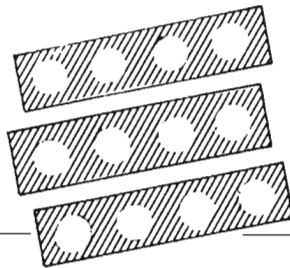
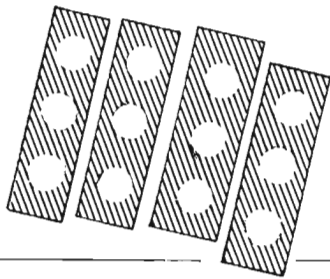
A.	B.	C.	D.
3	10	16	22
6	8	12	14

E.	F.	G.	H.
12	8	9	8
8	10	8	4

See also: D.I. pp. 92-100

What can you see?

¿Qué puede usted ver?



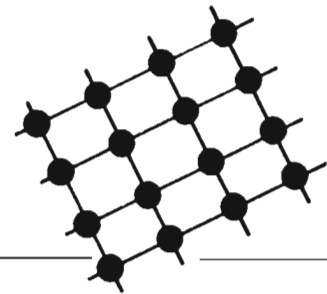
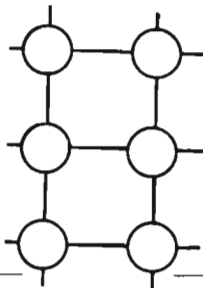
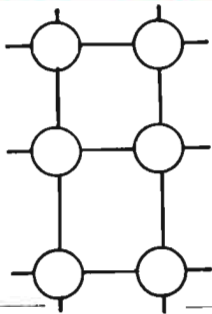
$$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$$
 A.
 
$$\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$$

$$3 \overline{) 12}$$

$$4 \overline{) 12}$$

$$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$$
 B.
 
$$3 \overline{) 9}$$

You will probably want to listen to most students' reactions to the pictures, encouraging as much information as the child is able to verbalize.



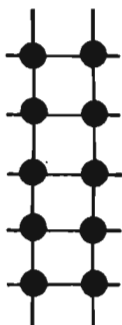
$$\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$$
 C.
 
$$\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$$

$$3 \overline{) 6}$$

$$2 \overline{) 6}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$$
 D.
 
$$4 \overline{) 16}$$

See also: D.&P. pp. 33, 34, 111-116, D.I. pp. 61-69



$$\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$$
 A.
 
$$2 \overline{) 4}$$
 B.

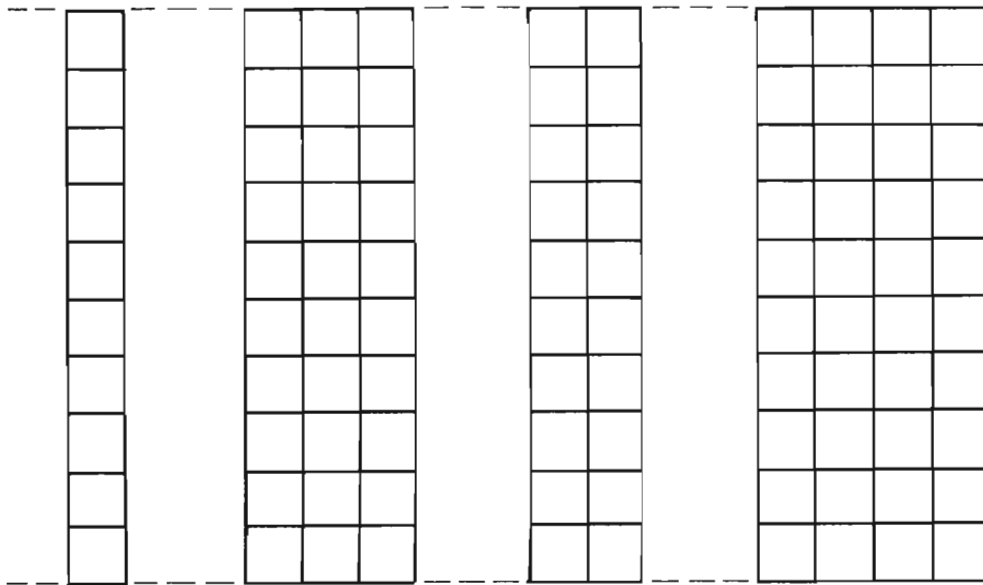
$$\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$$
 C.
 
$$2 \overline{) 8}$$
 D.

$$\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$$
 E.
 
$$\begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array}$$

$$5 \overline{) 10}$$

$$2 \overline{) 10}$$

A.	B.	C.	D.	E.
12	2	6	16	6
4	9	8	4	10



$$\begin{array}{r} 10 \\ + 30 \\ \hline 40 \end{array}$$

A.

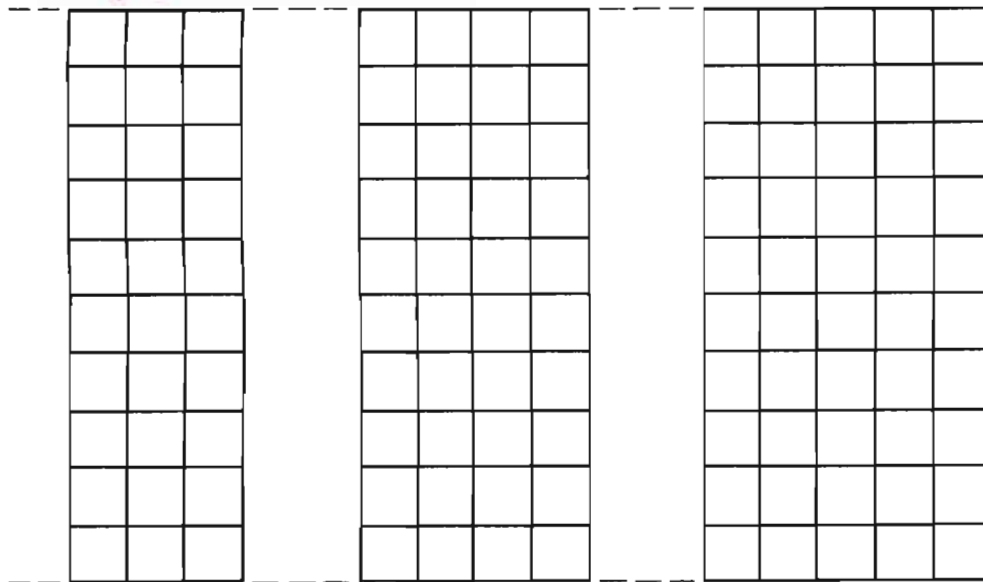
$$\begin{array}{r} 30 \\ + 20 \\ \hline 50 \end{array}$$

B.

$$\begin{array}{r} 20 \\ + 40 \\ \hline 60 \end{array}$$

C.

The child may self-check with the representations on the page or beansticks.



$$\begin{array}{r} 30 \\ + 40 \\ \hline 70 \end{array}$$

D.

$$\begin{array}{r} 40 \\ + 50 \\ \hline 90 \end{array}$$

E.

Related examples  
Ejemplos relacionados

$$\begin{array}{r} 20 \\ + 20 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 30 \\ + 30 \\ \hline 60 \end{array}$$

$$\begin{array}{r} 40 \\ + 40 \\ \hline 80 \end{array}$$

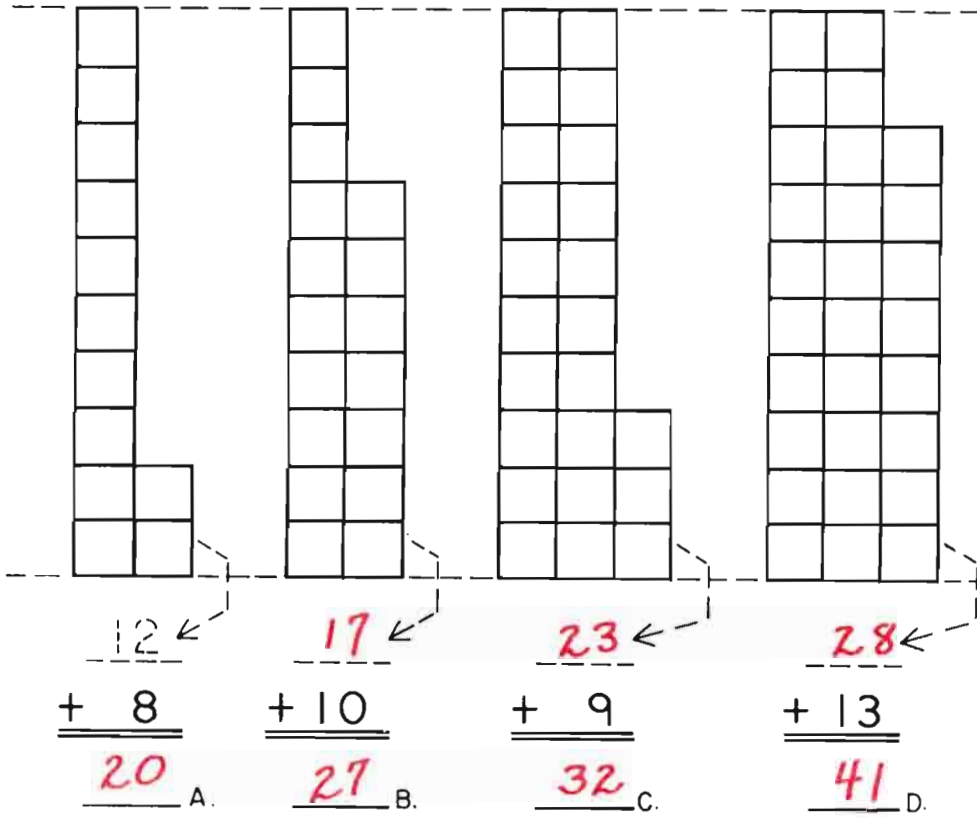
$$\begin{array}{r} 20 \\ + 70 \\ \hline 90 \end{array}$$

$$\begin{array}{r} 50 \\ + 30 \\ \hline 80 \end{array}$$

$$\begin{array}{r} 10 \\ + 80 \\ \hline 90 \end{array}$$

See also:  
D.I. pp. 61-69

A.	B.	C.	D.	E.
40	35	60	50	90
20	50	70	70	100



Related examples  
Ejemplos relacionados

$$\begin{array}{r} 11 \\ + 8 \\ \hline 19 \end{array}$$

$$\begin{array}{r} 11 \\ + 9 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 11 \\ + 18 \\ \hline 29 \end{array}$$

$$\begin{array}{r} 11 \\ + 19 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 4 \\ + 7 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 14 \\ + 17 \\ \hline 31 \end{array}$$

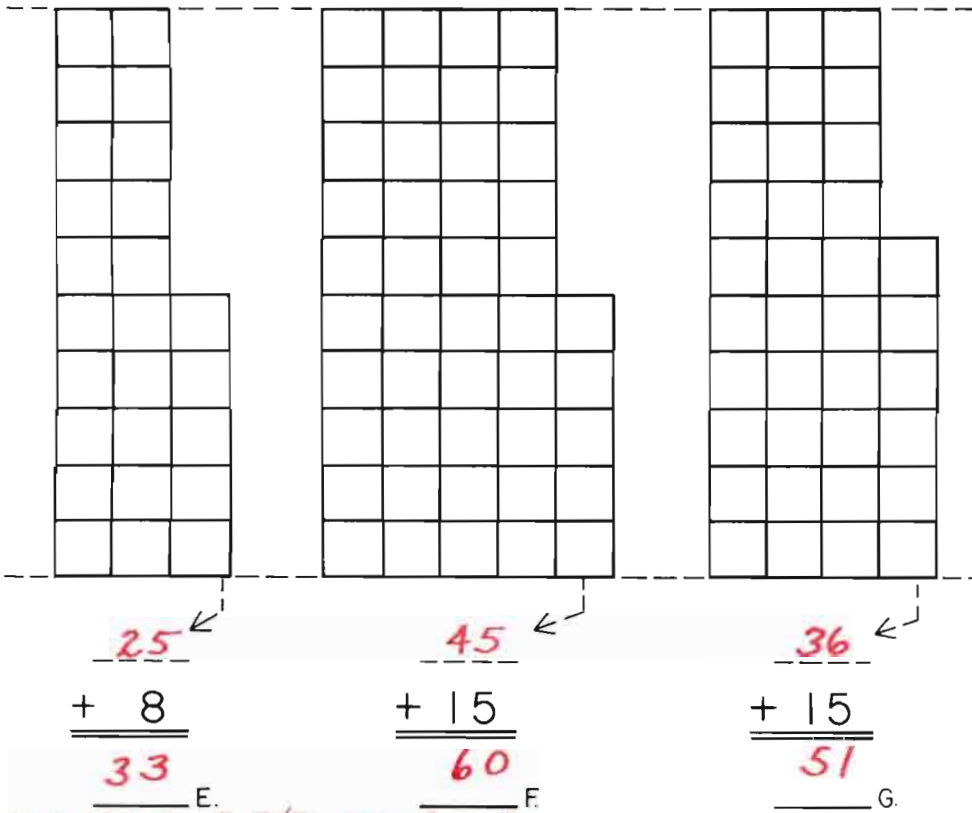
$$\begin{array}{r} 14 \\ + 7 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 24 \\ + 17 \\ \hline 41 \end{array}$$

$$\begin{array}{r} 34 \\ + 17 \\ \hline 51 \end{array}$$

$$\begin{array}{r} 34 \\ + 27 \\ \hline 61 \end{array}$$

The child may self-check by seeing patterns in answers (19,20) (29,30) or by using beansticks and beans.

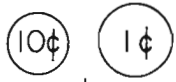
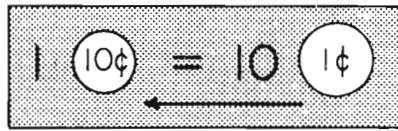


A.	B.	C.	D.
20	27	19	30
31	20	32	41

E.	F.	G.
35	60	41
33	58	51

See also: C P/P pp. 1 - 9,





Procedures introduced  
in c1, p55

$$\begin{array}{r} 1 \quad 12 \\ \hline 22 \text{ ¢} \end{array}$$

$$\begin{array}{r} 1 \quad \cancel{12} \\ \hline 22 \text{ ¢} \end{array}$$

$$\begin{array}{r} 2 \quad \cancel{10} \\ \hline 30 \text{ ¢} \end{array}$$

$$\begin{array}{r} 2 \quad 15 \\ \hline 35 \text{ ¢ A.} \end{array}$$

$$\begin{array}{r} 2 \quad \cancel{15} \\ \hline 35 \text{ ¢ B.} \end{array}$$

$$\begin{array}{r} 4 \quad \cancel{10} \\ \hline 50 \text{ ¢ C.} \end{array}$$

$$\begin{array}{r} 0 \quad 13 \\ \hline 13 \text{ ¢ D.} \end{array}$$

$$\begin{array}{r} 0 \quad \cancel{13} \\ \hline 13 \text{ ¢ E.} \end{array}$$

$$\begin{array}{r} 9 \quad \cancel{15} \\ \hline 105 \text{ ¢ F.} \end{array}$$

$$\begin{array}{r} 1 \quad 5 \\ \hline 15 \text{ ¢} \end{array}$$

$$\begin{array}{r} + 1 \quad 4 \\ \hline \hline 2 \quad 9 \\ \hline 29 \text{ ¢ G.} \end{array}$$

$$\begin{array}{r} 2 \quad 9 \\ \hline 29 \text{ ¢ G.} \end{array}$$

$$\begin{array}{r} 1 \quad 5 \\ \hline 15 \text{ ¢} \end{array}$$

$$\begin{array}{r} + 1 \quad 5 \\ \hline \hline 3 \quad 10 \\ \hline 30 \text{ ¢ H.} \end{array}$$

$$\begin{array}{r} 3 \quad 10 \\ \hline 30 \text{ ¢ H.} \end{array}$$

$$\begin{array}{r} 2 \quad 5 \\ \hline 25 \text{ ¢} \end{array}$$

$$\begin{array}{r} + 2 \quad 7 \\ \hline \hline 5 \quad 12 \\ \hline 52 \text{ ¢ A.} \end{array}$$

$$\begin{array}{r} 5 \quad 12 \\ \hline 52 \text{ ¢ A.} \end{array}$$

$$\begin{array}{r} 2 \quad 6 \\ \hline 26 \text{ ¢} \end{array}$$

$$\begin{array}{r} + 1 \quad 4 \\ \hline \hline 4 \quad 0 \\ \hline 40 \text{ ¢ B.} \end{array}$$

$$\begin{array}{r} 4 \quad 0 \\ \hline 40 \text{ ¢ B.} \end{array}$$

$$\begin{array}{r} 1 \quad 8 \\ \hline 18 \text{ ¢} \end{array}$$

$$\begin{array}{r} + 2 \quad 4 \\ \hline \hline 4 \quad 2 \\ \hline 42 \text{ ¢ C.} \end{array}$$

$$\begin{array}{r} 4 \quad 2 \\ \hline 42 \text{ ¢ C.} \end{array}$$

$$\begin{array}{r} 2 \quad 3 \\ \hline 23 \text{ ¢} \end{array}$$

$$\begin{array}{r} + 2 \quad 5 \\ \hline \hline 4 \quad 8 \\ \hline 48 \text{ ¢ D.} \end{array}$$

$$\begin{array}{r} 4 \quad 8 \\ \hline 48 \text{ ¢ D.} \end{array}$$

$$\begin{array}{r} 2 \quad 9 \\ \hline 29 \text{ ¢} \end{array}$$

$$\begin{array}{r} + 0 \quad 3 \\ \hline \hline 3 \quad 2 \\ \hline 32 \text{ ¢ E.} \end{array}$$

$$\begin{array}{r} 3 \quad 2 \\ \hline 32 \text{ ¢ E.} \end{array}$$

$$\begin{array}{r} 3 \quad 7 \\ \hline 37 \text{ ¢} \end{array}$$

$$\begin{array}{r} + 3 \quad 2 \\ \hline \hline 6 \quad 9 \\ \hline 69 \text{ ¢ F.} \end{array}$$

$$\begin{array}{r} 6 \quad 9 \\ \hline 69 \text{ ¢ F.} \end{array}$$

$$\begin{array}{r} 2 \quad 6 \\ \hline 26 \text{ ¢} \end{array}$$

$$\begin{array}{r} + 2 \quad 6 \\ \hline \hline 5 \quad 2 \\ \hline 52 \text{ ¢ G.} \end{array}$$

$$\begin{array}{r} 5 \quad 2 \\ \hline 52 \text{ ¢ G.} \end{array}$$

1	2	3	4
5			8
	10		12
		15	16
			20

1	2	3	4	5
		8		10
				15
			18	20
				25

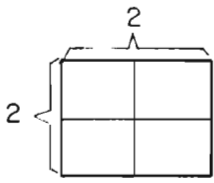
1	2	3	4	5	6
			10		12
				15	18
	20				24
25					30

A.	B.	C.	D.
35	40	42	13
52	35	50	48

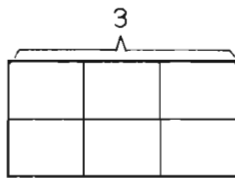
E.	F.	G.	H.
32	105	29	43
13	69	52	30

When in doubt, count!  
 ¡Cuando en duda, cuente!

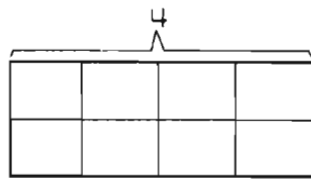
When you know, don't count!  
 ¡Cuando usted sepa, no cuente!



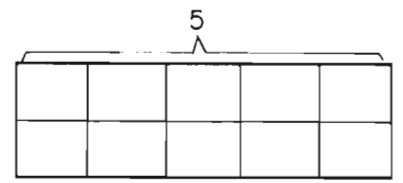
$$\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$$



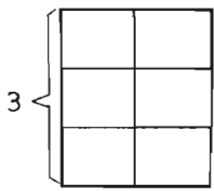
$$\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array} \quad \begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$$



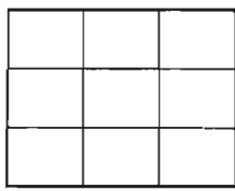
$$\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array} \quad \begin{array}{r} 2 \\ \times 4 \\ \hline 8 \end{array}$$



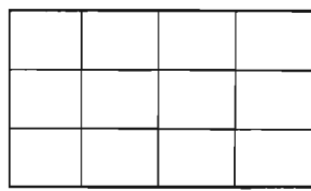
$$\begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array} \quad \begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$$



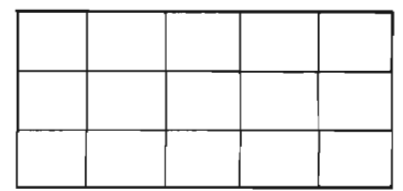
$$\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array} \quad \begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$$



$$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$$

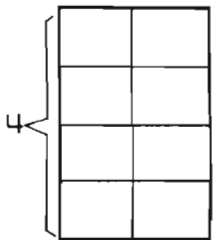


$$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array} \quad \begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$$

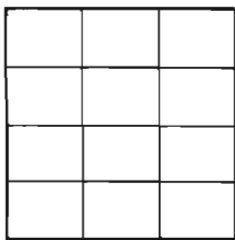


$$\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array} \quad \begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$$

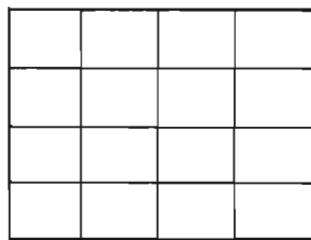
See also: D.I. pp. 140 - 141, D. & P. pp 111 - 116.



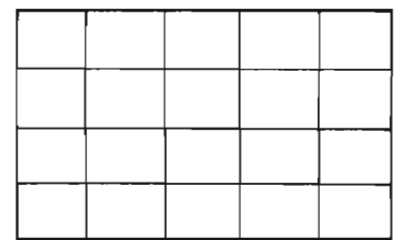
$$\begin{array}{r} 2 \\ \times 4 \\ \hline 8 \end{array} \quad \begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$$



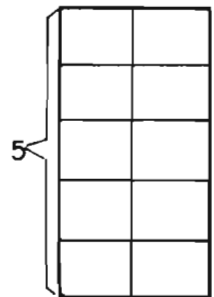
$$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array} \quad \begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$$



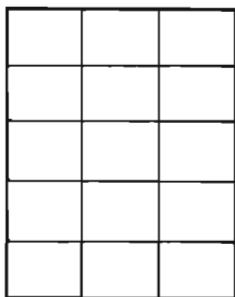
$$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$$



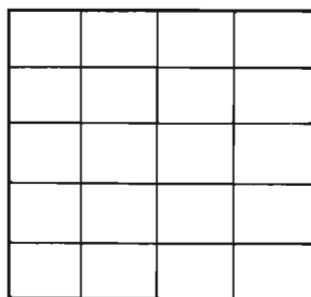
$$\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array} \quad \begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$$



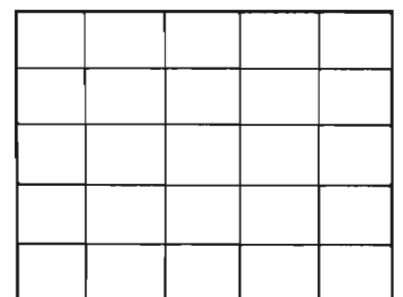
$$\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array} \quad \begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array}$$



$$\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array} \quad \begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$$



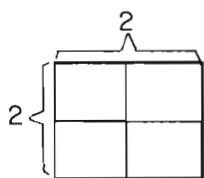
$$\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array} \quad \begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$$



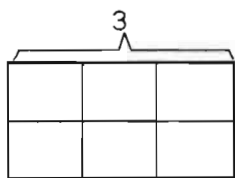
$$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$$

When in doubt, count!  
 Cuando en duda, cuente!

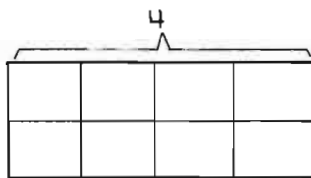
When you know, don't count!  
 ¡Cuando usted sepa, no cuente!



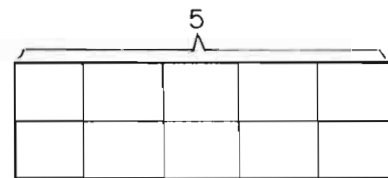
$$2 \overline{) 4}$$



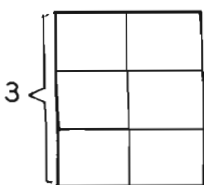
$$2 \overline{) 6}$$



$$2 \overline{) 8}$$



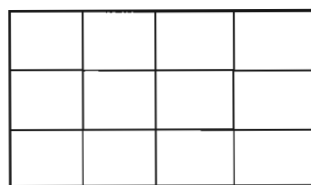
$$2 \overline{) 10}$$



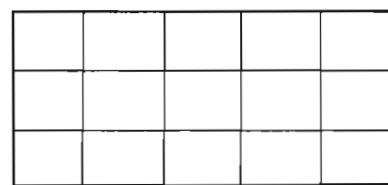
$$3 \overline{) 6}$$



$$3 \overline{) 9}$$

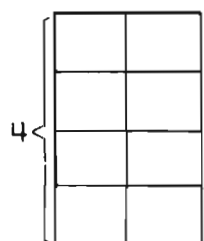


$$3 \overline{) 12}$$

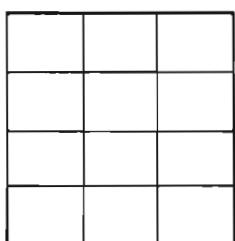


$$3 \overline{) 15}$$

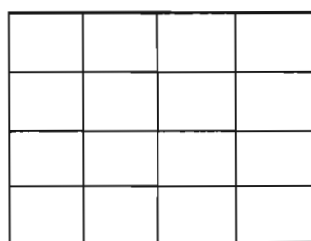
See also: D. & P. pp. 15 - 18



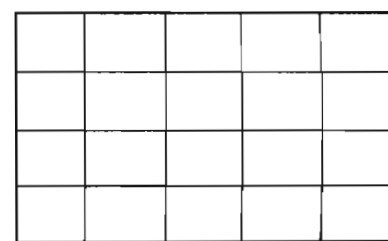
$$4 \overline{) 8}$$



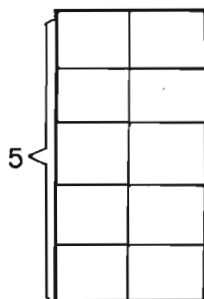
$$4 \overline{) 12}$$



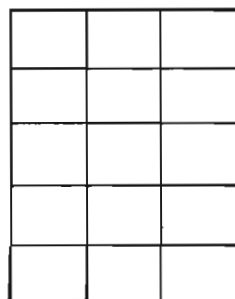
$$4 \overline{) 16}$$



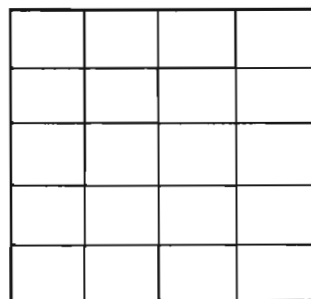
$$4 \overline{) 20}$$



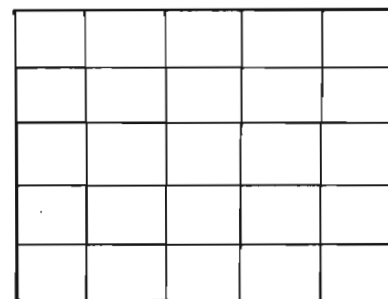
$$5 \overline{) 10}$$



$$5 \overline{) 15}$$



$$5 \overline{) 20}$$



$$5 \overline{) 25}$$

The child works down the columns, not across the rows, but should be looking for the horizontal pattern.

$\begin{array}{r} 0 \\ +0 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ +1 \\ \hline 2 \end{array}$	$\begin{array}{r} 2 \\ +2 \\ \hline 4 \end{array}$	$\begin{array}{r} 3 \\ +3 \\ \hline 6 \end{array}$	$\begin{array}{r} 4 \\ +4 \\ \hline 8 \end{array}$	$\begin{array}{r} 5 \\ +5 \\ \hline 10 \end{array}$	$\begin{array}{r} 6 \\ +6 \\ \hline 12 \end{array}$	$\begin{array}{r} 7 \\ +7 \\ \hline 14 \end{array}$	$\begin{array}{r} 8 \\ +8 \\ \hline 16 \end{array}$	$\begin{array}{r} 9 \\ +9 \\ \hline 18 \end{array}$
----------------------------------------------------	----------------------------------------------------	----------------------------------------------------	----------------------------------------------------	----------------------------------------------------	-----------------------------------------------------	-----------------------------------------------------	-----------------------------------------------------	-----------------------------------------------------	-----------------------------------------------------

$\begin{array}{r} 0 \\ \times 2 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ \times 2 \\ \hline 2 \end{array}$	$\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$	$\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$	$\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$	$\begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array}$	$\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$	$\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array}$	$\begin{array}{r} 8 \\ \times 2 \\ \hline 16 \end{array}$	$\begin{array}{r} 9 \\ \times 2 \\ \hline 18 \end{array}$
----------------------------------------------------------	----------------------------------------------------------	----------------------------------------------------------	----------------------------------------------------------	----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------

See also: D. & P. pp. 111 - 116

$\begin{array}{r} 2 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 2 \\ \times 1 \\ \hline 2 \end{array}$	$\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$	$\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$	$\begin{array}{r} 2 \\ \times 4 \\ \hline 8 \end{array}$	$\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$	$\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$	$\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$	$\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$	$\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$
----------------------------------------------------------	----------------------------------------------------------	----------------------------------------------------------	----------------------------------------------------------	----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------

$\begin{array}{r} 00 \\ +00 \\ \hline 0 \end{array}$	$\begin{array}{r} 11 \\ +11 \\ \hline 3 \end{array}$	$\begin{array}{r} 22 \\ +22 \\ \hline 6 \end{array}$	$\begin{array}{r} 33 \\ +33 \\ \hline 9 \end{array}$	$\begin{array}{r} 44 \\ +44 \\ \hline 12 \end{array}$	$\begin{array}{r} 55 \\ +55 \\ \hline 15 \end{array}$	$\begin{array}{r} 66 \\ +66 \\ \hline 18 \end{array}$	$\begin{array}{r} 77 \\ +77 \\ \hline 21 \end{array}$	$\begin{array}{r} 88 \\ +88 \\ \hline 24 \end{array}$	$\begin{array}{r} 99 \\ +99 \\ \hline 27 \end{array}$
------------------------------------------------------	------------------------------------------------------	------------------------------------------------------	------------------------------------------------------	-------------------------------------------------------	-------------------------------------------------------	-------------------------------------------------------	-------------------------------------------------------	-------------------------------------------------------	-------------------------------------------------------

$\begin{array}{r} 0 \\ \times 3 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ \times 3 \\ \hline 3 \end{array}$	$\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$	$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$	$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$	$\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$	$\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$	$\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$	$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$	$\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$
----------------------------------------------------------	----------------------------------------------------------	----------------------------------------------------------	----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------

$\begin{array}{r} 3 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 3 \\ \times 1 \\ \hline 3 \end{array}$	$\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$	$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$	$\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$	$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$	$\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$	$\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$	$\begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array}$	$\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$
----------------------------------------------------------	----------------------------------------------------------	----------------------------------------------------------	----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------

The child may complete this table by patterning only, but could be shown how to use it as a graph to find products.

	0	1	2	3	4	5	6	7	8	9	10
2	0	2	4	6	8	10	12	14	16	18	20
3	0	3	6	9	12	15	18	21	24	27	30

$\begin{array}{r} 0 \\ 0 \\ 0 \\ +0 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ 1 \\ 1 \\ +1 \\ \hline 4 \end{array}$	$\begin{array}{r} 2 \\ 2 \\ 2 \\ +2 \\ \hline 8 \end{array}$	$\begin{array}{r} 3 \\ 3 \\ 3 \\ +3 \\ \hline 12 \end{array}$	$\begin{array}{r} 4 \\ 4 \\ 4 \\ +4 \\ \hline 16 \end{array}$	$\begin{array}{r} 5 \\ 5 \\ 5 \\ +5 \\ \hline 20 \end{array}$	$\begin{array}{r} 6 \\ 6 \\ 6 \\ +6 \\ \hline 24 \end{array}$	$\begin{array}{r} 7 \\ 7 \\ 7 \\ +7 \\ \hline 28 \end{array}$	$\begin{array}{r} 8 \\ 8 \\ 8 \\ +8 \\ \hline 32 \end{array}$	$\begin{array}{r} 9 \\ 9 \\ 9 \\ +9 \\ \hline 36 \end{array}$
--------------------------------------------------------------	--------------------------------------------------------------	--------------------------------------------------------------	---------------------------------------------------------------	---------------------------------------------------------------	---------------------------------------------------------------	---------------------------------------------------------------	---------------------------------------------------------------	---------------------------------------------------------------	---------------------------------------------------------------

The child may self check through patterns in answers.

$\begin{array}{r} 0 \\ \times 4 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ \times 4 \\ \hline 4 \end{array}$	$\begin{array}{r} 2 \\ \times 4 \\ \hline 8 \end{array}$	$\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$	$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$	$\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$	$\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$	$\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$	$\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$	$\begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array}$
----------------------------------------------------------	----------------------------------------------------------	----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------

$\begin{array}{r} 4 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 4 \\ \times 1 \\ \hline 4 \end{array}$	$\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$	$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$	$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$	$\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$	$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$	$\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$	$\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$	$\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$
----------------------------------------------------------	----------------------------------------------------------	----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------

$\begin{array}{r} 0 \\ 0 \\ 0 \\ +0 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ 1 \\ 1 \\ +1 \\ \hline 5 \end{array}$	$\begin{array}{r} 2 \\ 2 \\ 2 \\ +2 \\ \hline 10 \end{array}$	$\begin{array}{r} 3 \\ 3 \\ 3 \\ +3 \\ \hline 15 \end{array}$	$\begin{array}{r} 4 \\ 4 \\ 4 \\ +4 \\ \hline 20 \end{array}$	$\begin{array}{r} 5 \\ 5 \\ 5 \\ +5 \\ \hline 25 \end{array}$	$\begin{array}{r} 6 \\ 6 \\ 6 \\ +6 \\ \hline 30 \end{array}$	$\begin{array}{r} 7 \\ 7 \\ 7 \\ +7 \\ \hline 35 \end{array}$	$\begin{array}{r} 8 \\ 8 \\ 8 \\ +8 \\ \hline 40 \end{array}$	$\begin{array}{r} 9 \\ 9 \\ 9 \\ +9 \\ \hline 45 \end{array}$
--------------------------------------------------------------	--------------------------------------------------------------	---------------------------------------------------------------	---------------------------------------------------------------	---------------------------------------------------------------	---------------------------------------------------------------	---------------------------------------------------------------	---------------------------------------------------------------	---------------------------------------------------------------	---------------------------------------------------------------

$\begin{array}{r} 0 \\ \times 5 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ \times 5 \\ \hline 5 \end{array}$	$\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$	$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$	$\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$	$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$	$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$	$\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$	$\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$	$\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array}$
----------------------------------------------------------	----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------

$\begin{array}{r} 5 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 5 \\ \times 1 \\ \hline 5 \end{array}$	$\begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array}$	$\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$	$\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$	$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$	$\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$	$\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$	$\begin{array}{r} 5 \\ \times 8 \\ \hline 40 \end{array}$	$\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$
----------------------------------------------------------	----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------

	0	1	2	3	4	5	6	7	8	9	10
4	0	4	8	12	16	20	24	28	32	36	40
5	0	5	10	15	20	25	30	35	40	45	50

2, 3, 4, 5, 6, 7, 8, 9

Please make all examples different.

Favor de hacer todos los ejemplos diferentes.

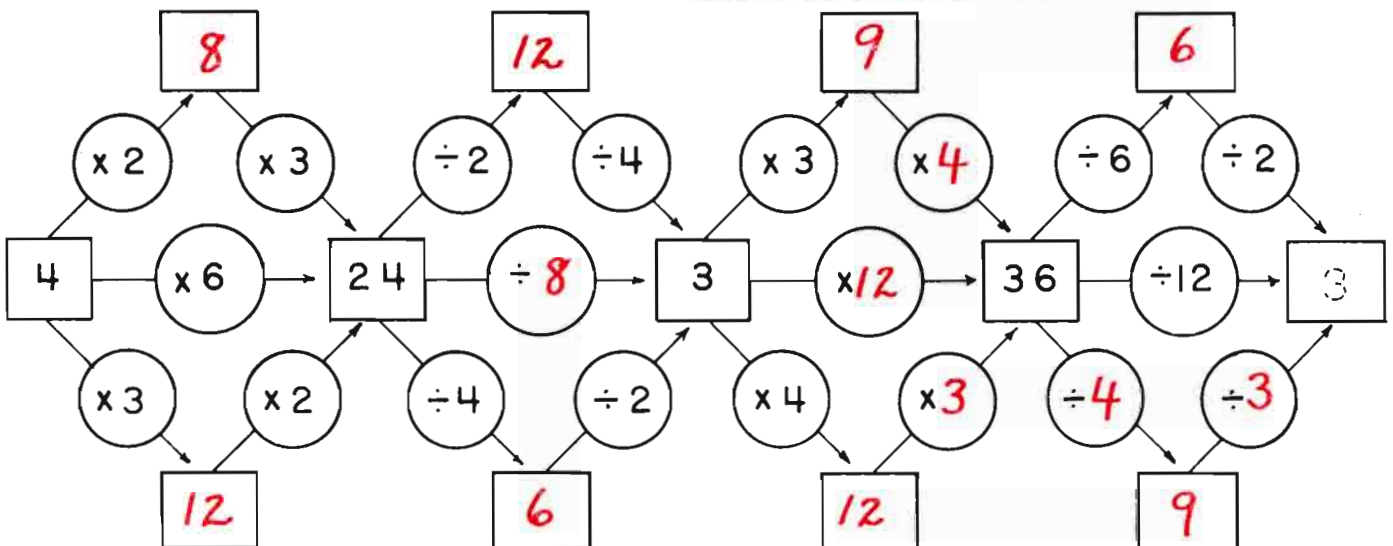
$\begin{array}{r} \times 3 \\ 2 \\ \hline 6 \end{array}$	$\begin{array}{r} \times 2 \\ 3 \\ \hline 6 \end{array}$	$\begin{array}{r} \times 4 \\ 2 \\ \hline 8 \end{array}$	$\begin{array}{r} \times 2 \\ 4 \\ \hline 8 \end{array}$	$\begin{array}{r} \times 3 \\ 3 \\ \hline 9 \end{array}$	$\begin{array}{r} \times 5 \\ 2 \\ \hline 10 \end{array}$	$\begin{array}{r} \times 2 \\ 5 \\ \hline 10 \end{array}$
----------------------------------------------------------	----------------------------------------------------------	----------------------------------------------------------	----------------------------------------------------------	----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------

$\begin{array}{r} \times 4 \\ 3 \\ \hline 12 \end{array}$	$\begin{array}{r} \times 3 \\ 4 \\ \hline 12 \end{array}$	$\begin{array}{r} \times 6 \\ 2 \\ \hline 12 \end{array}$	$\begin{array}{r} \times 2 \\ 6 \\ \hline 12 \end{array}$	$\begin{array}{r} \times 7 \\ 2 \\ \hline 14 \end{array}$	$\begin{array}{r} \times 2 \\ 7 \\ \hline 14 \end{array}$	$\begin{array}{r} \times 5 \\ 3 \\ \hline 15 \end{array}$
-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------

$\begin{array}{r} \times 3 \\ 5 \\ \hline 15 \end{array}$	$\begin{array}{r} \times 4 \\ 4 \\ \hline 16 \end{array}$	$\begin{array}{r} \times 8 \\ 2 \\ \hline 16 \end{array}$	$\begin{array}{r} \times 2 \\ 8 \\ \hline 16 \end{array}$	$\begin{array}{r} \times 9 \\ 2 \\ \hline 18 \end{array}$	$\begin{array}{r} \times 2 \\ 9 \\ \hline 18 \end{array}$	$\begin{array}{r} \times 6 \\ 3 \\ \hline 18 \end{array}$
-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------

$\begin{array}{r} \times 3 \\ 6 \\ \hline 18 \end{array}$	$\begin{array}{r} \times 5 \\ 4 \\ \hline 20 \end{array}$	$\begin{array}{r} \times 4 \\ 5 \\ \hline 20 \end{array}$	$\begin{array}{r} \times 7 \\ 3 \\ \hline 21 \end{array}$	$\begin{array}{r} \times 3 \\ 7 \\ \hline 21 \end{array}$	$\begin{array}{r} \times 8 \\ 3 \\ \hline 24 \end{array}$	$\begin{array}{r} \times 3 \\ 8 \\ \hline 24 \end{array}$
-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------

See also: C P/P pp. 53, 54



A. B. C. D. E. F.

$$\begin{array}{r} 16 \\ + 12 \\ \hline 28 \end{array}$$
 Total

$$\begin{array}{r} 24 \\ + 37 \\ \hline 61 \end{array}$$

$$\begin{array}{r} 37 \\ + 25 \\ \hline 62 \end{array}$$

3

$$\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array} \quad \begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array} \quad \begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array} \quad \begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$$

4

$$4 \overline{) 8}$$

$$4 \overline{) 12}$$

$$4 \overline{) 20}$$

How do you feel?  
¿Cómo se siente?



Dear Parents,

As in the previous CDA computation books, as your child completes each "Check-up" exercise you will receive a letter like this one. In this book your child will continue with the recording of addition and subtraction where "regrouping" (carrying and borrowing) is involved, and with multiplication and division.

In the first activity on the back of this page the boxes are grouped by tens and ones. This "place value" sketch continues to be a very important representation of the mathematical shorthand your child has completed - one can "see" what's happening. As the book progresses these sketches will be phased out, as on certain pages they already have been. In the meantime they serve as valuable referents, especially on testing pages, to prepare for the move to the abstract level with confidence. Though sometimes it's hard to resist the urge, we cannot hurry children past this representational level -- without bypassing understanding and creating the insecurities and confusions with math that so many of us are all too familiar with.

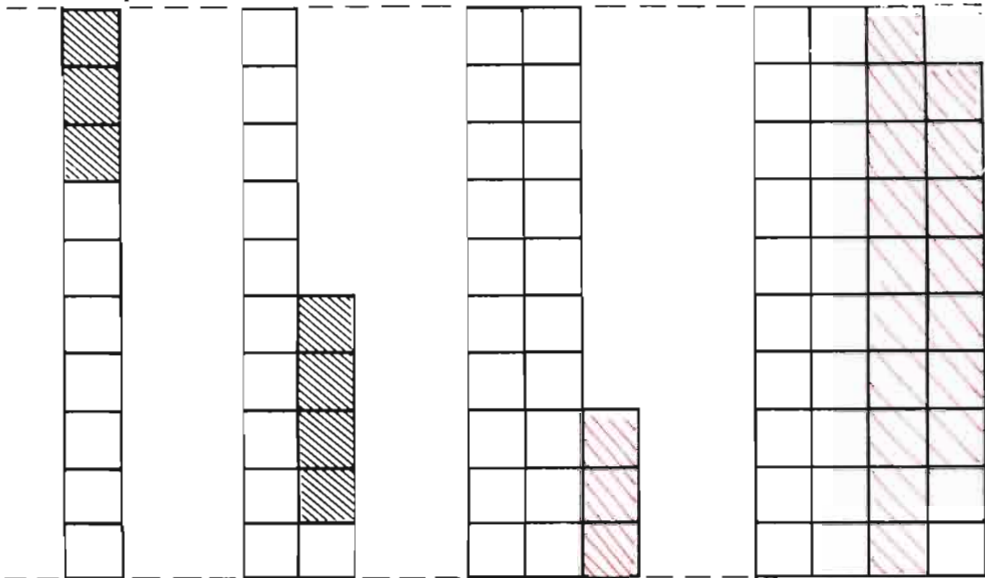
A similar representation appears with the multiplication and division activities, but here the arrangement is to suggest multiples of boxes. You can see that your child can now "read" these pictures and translate them into the standard notations of multiplication and division. This is an important step, demonstrating the growth of a solid understanding of these operations, which have a concrete meaning rather than an identity solely on a memorized times table.

You can help at home by pointing out "everyday" sorts of division and multiplication - i.e.: with 2 dozen cookies in a package, how many will be each person's share; how much will three 50¢ felt pens cost; how many toes are there in our family, how many ears! etc. Again we remind you to do such activities with your child only when you both can do so in a friendly, fun sort of way, remembering that pleasure and self-confidence assist in the learning of math more than anything else. Thanks for your help!

Sincerely,



Please color the number of boxes to be subtracted.  
 Favor de pintar de color el número de cuadros para restar.



$$\begin{array}{r} 10 \\ - 3 \\ \hline 7 \end{array} \text{ A.}$$

$$\begin{array}{r} 15 \\ - 4 \\ \hline 11 \end{array} \text{ B.}$$

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

$$\begin{array}{r} 39 \\ - 17 \\ \hline 22 \end{array} \text{ D.}$$

Related examples  
Ejemplos relacionados

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

$$\begin{array}{r} 23 \\ - 5 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 33 \\ - 5 \\ \hline 28 \end{array}$$

$$\begin{array}{r} 43 \\ - 5 \\ \hline 38 \end{array}$$

$$\begin{array}{r} 43 \\ - 15 \\ \hline 28 \end{array}$$

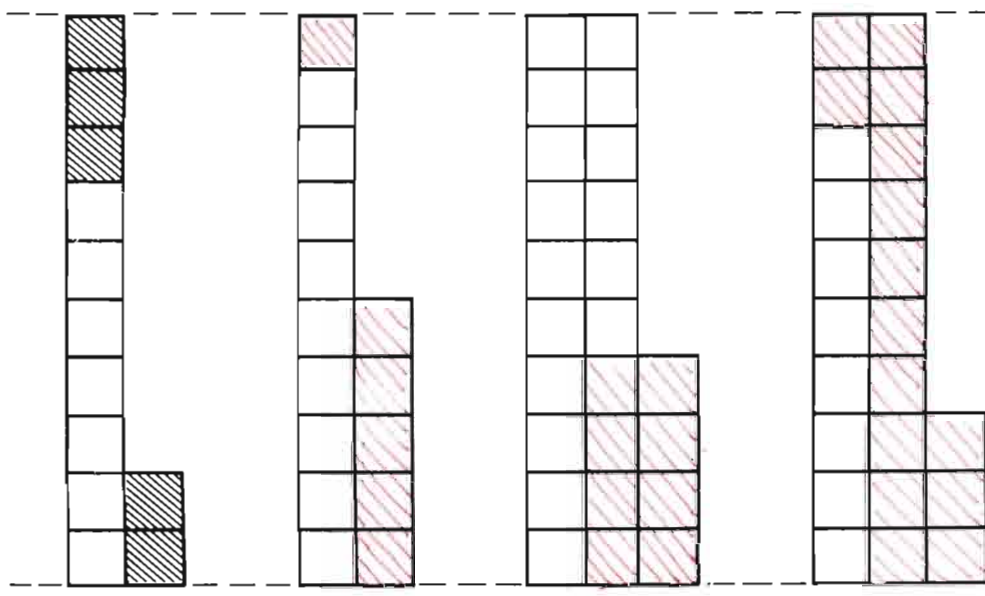
$$\begin{array}{r} 43 \\ - 25 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 43 \\ - 35 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 53 \\ - 35 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 43 \\ - 36 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 53 \\ - 36 \\ \hline 17 \end{array}$$



$$\begin{array}{r} 12 \\ - 5 \\ \hline 7 \end{array} \text{ E.}$$

$$\begin{array}{r} 15 \\ - 6 \\ \hline 9 \end{array} \text{ F.}$$

$$\begin{array}{r} 24 \\ - 8 \\ \hline 16 \end{array} \text{ G.}$$

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

A.	B.	C.	D.
7	14	17	13
12	11	20	22

E.	F.	G.	H.
9	9	12	8
7	11	16	17

See also: D.I. pp. 89, 92 - 100

$$\begin{array}{r} 17 \\ - 6 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 36 \\ - 6 \\ \hline 30 \end{array} \text{ A.}$$

$$\begin{array}{r} 34 \\ - 6 \\ \hline 28 \end{array} \text{ B.}$$

$$\begin{array}{r} 33 \\ - 6 \\ \hline 27 \end{array} \text{ C.}$$

$$\begin{array}{r} 31 \\ - 6 \\ \hline 25 \end{array} \text{ D.}$$

1	2	3
4	5	6
7	8	9
10		12
		15
16		18
		21
		24
25		27

$$\begin{array}{r} 38 \\ - 16 \\ \hline 22 \end{array} \text{ E.}$$

$$\begin{array}{r} 46 \\ - 16 \\ \hline 30 \end{array} \text{ F.}$$

$$\begin{array}{r} 42 \\ - 26 \\ \hline 16 \end{array} \text{ G.}$$

$$\begin{array}{r} 60 \\ - 26 \\ \hline 34 \end{array} \text{ H.}$$

A.	B.	C.	D.
29	29	27	25
30	28	29	24

E.	F.	G.	H.
22	32	18	28
24	30	16	34

Please make up your own examples. Favor de hacer sus propios ejemplos.

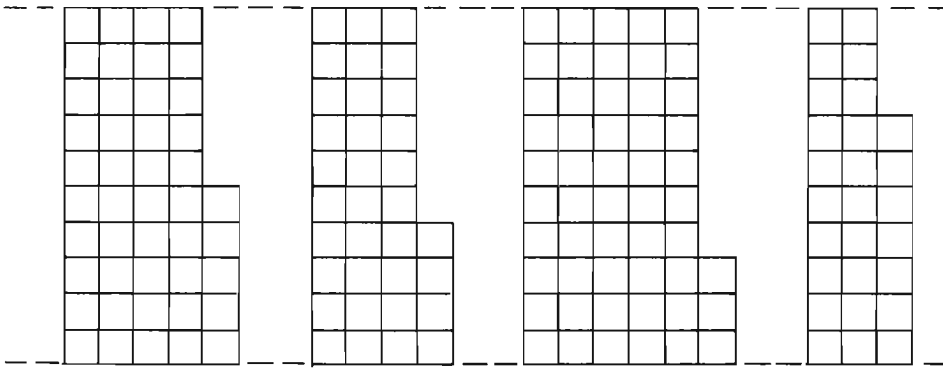
$$\begin{array}{r} 45 \\ - \quad \\ \hline \end{array}$$

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

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

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

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



$$\begin{array}{r} 45 \\ - 15 \\ \hline 30 \end{array} \text{ A.}$$

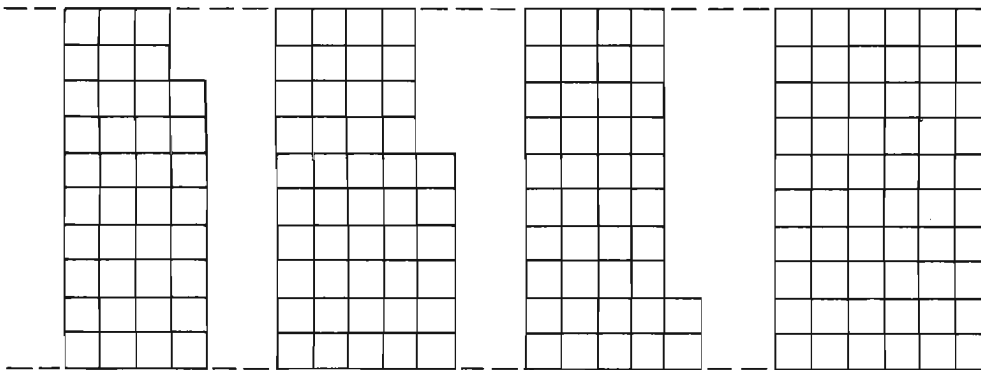
$$\begin{array}{r} 34 \\ - 15 \\ \hline 19 \end{array} \text{ B.}$$

$$\begin{array}{r} 53 \\ - 15 \\ \hline 38 \end{array} \text{ C.}$$

$$\begin{array}{r} 27 \\ - 15 \\ \hline 12 \end{array} \text{ D.}$$

Related examples  
Ejemplos relacionados

$$\begin{array}{r} 12 \\ - 9 \\ \hline 3 \end{array} \quad \begin{array}{r} 22 \\ - 9 \\ \hline 13 \end{array} \text{ B.}$$



$$\begin{array}{r} 38 \\ - 16 \\ \hline 22 \end{array} \text{ E.}$$

$$\begin{array}{r} 46 \\ - 16 \\ \hline 30 \end{array} \text{ A.}$$

$$\begin{array}{r} 42 \\ - 26 \\ \hline 16 \end{array} \text{ B.}$$

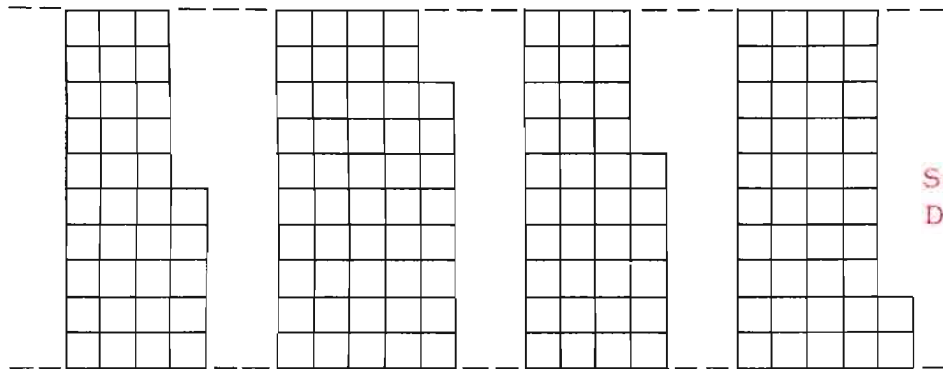
$$\begin{array}{r} 60 \\ - 26 \\ \hline 34 \end{array} \text{ C.}$$

$$\begin{array}{r} 22 \\ - 19 \\ \hline 3 \end{array} \quad \begin{array}{r} 32 \\ - 19 \\ \hline 13 \end{array} \text{ A.}$$

$$\begin{array}{r} 33 \\ - 19 \\ \hline 14 \end{array} \quad \begin{array}{r} 33 \\ - 29 \\ \hline 4 \end{array} \text{ C.}$$

$$\begin{array}{r} 43 \\ - 29 \\ \hline 14 \end{array} \quad \begin{array}{r} 43 \\ - 19 \\ \hline 24 \end{array} \text{ D.}$$

$$\begin{array}{r} 44 \\ - 29 \\ \hline 15 \end{array} \quad \begin{array}{r} 44 \\ - 39 \\ \hline 5 \end{array} \text{ E.}$$



$$\begin{array}{r} 35 \\ - 17 \\ \hline 18 \end{array} \text{ D.}$$

$$\begin{array}{r} 48 \\ - 32 \\ \hline 16 \end{array} \text{ E.}$$

$$\begin{array}{r} 36 \\ - 28 \\ \hline 8 \end{array} \text{ A.}$$

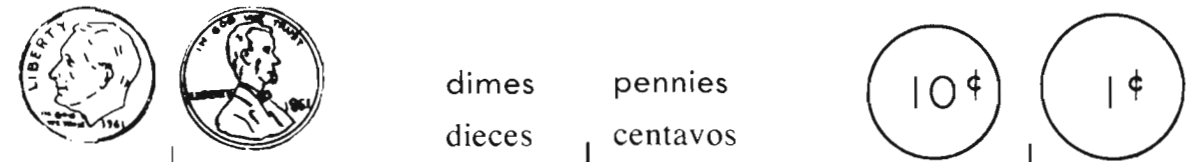
$$\begin{array}{r} 42 \\ - 29 \\ \hline 13 \end{array} \text{ B.}$$

See also:  
D.I. pp. 89, 92 - 100

A.	B.	C.	D.	E.
30	16	4	12	16
13	13	38	18	5
8	19	34	24	22



You may want to point out the similarity between this activity



and activities with ten-sticks and loose beans.

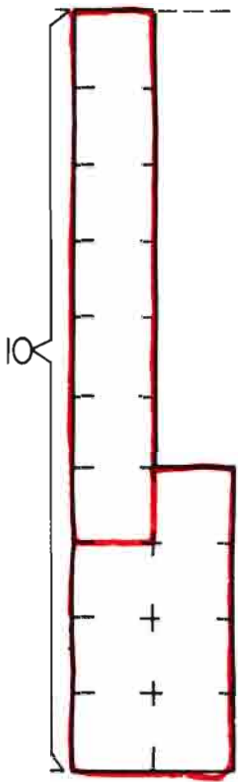
$\begin{array}{r} 2 \quad 10 \\ \hline \end{array} = 30 \text{ ¢}$	$\begin{array}{r} 1 \quad 24 \\ \hline \end{array} = 34 \text{ ¢}$	$\begin{array}{r} 10 \quad 0 \\ \hline \end{array} = 100 \text{ ¢}$
$\begin{array}{r} 1 \quad 7 \\ \hline \end{array} = 17 \text{ ¢}_A$	$\begin{array}{r} 3 \quad 12 \\ \hline \end{array} = 42 \text{ ¢}_C$	$\begin{array}{r} 1 \quad 37 \\ \hline \end{array} = 47 \text{ ¢}_F$
$\begin{array}{r} 0 \quad 15 \\ \hline \end{array} = 15 \text{ ¢}$	$\begin{array}{r} 4 \quad 8 \\ \hline \end{array} = 48 \text{ ¢}_D$	$\begin{array}{r} 5 \quad 19 \\ \hline \end{array} = 69 \text{ ¢}_G$
$\begin{array}{r} 2 \quad 15 \\ \hline \end{array} = 35 \text{ ¢}_B$	$\begin{array}{r} 6 \quad 10 \\ \hline \end{array} = 70 \text{ ¢}_E$	$\begin{array}{r} 9 \quad 12 \\ \hline \end{array} = 102 \text{ ¢}_H$

$\begin{array}{r} 2 \quad 3 \\ \hline \end{array} = 23 \text{ ¢}$	$\begin{array}{r} 2 \quad 13 \\ \hline \end{array} = 23 \text{ ¢}$	$\begin{array}{r} 0 \quad 15 \\ \hline \end{array} = 15 \text{ ¢}_J$
$\begin{array}{r} -1 \quad 13 \\ \hline \end{array} = 23 \text{ ¢}$	$\begin{array}{r} -1 \quad 5 \\ \hline \end{array} = 15 \text{ ¢}_I$	$\begin{array}{r} -1 \quad 5 \\ \hline \end{array} = 15 \text{ ¢}_A$
$\begin{array}{r} 0 \quad 0 \\ \hline \end{array} = 0$	$\begin{array}{r} 0 \quad 8 \\ \hline \end{array} = 8$	$\begin{array}{r} 0 \quad 0 \\ \hline \end{array} = 0$
$\begin{array}{r} 3 \quad 7 \\ \hline \end{array} = 37 \text{ ¢}$	$\begin{array}{r} 3 \quad 10 \\ \hline \end{array} = 40 \text{ ¢}$	$\begin{array}{r} 3 \quad 4 \quad 0 \\ \hline \end{array} = 40 \text{ ¢}_D$
$\begin{array}{r} -1 \quad 4 \\ \hline \end{array} = 14 \text{ ¢}$	$\begin{array}{r} -1 \quad 8 \\ \hline \end{array} = 18 \text{ ¢}_J$	$\begin{array}{r} -1 \quad 7 \\ \hline \end{array} = 17 \text{ ¢}$
$\begin{array}{r} 2 \quad 3 \\ \hline \end{array} = 23 \text{ ¢}_B$	$\begin{array}{r} 2 \quad 2 \\ \hline \end{array} = 22 \text{ ¢}_C$	$\begin{array}{r} 2 \quad 3 \\ \hline \end{array} = 23 \text{ ¢}_E$
$\begin{array}{r} 4 \quad 8 \\ \hline \end{array} = 52 \text{ ¢}_F$	$\begin{array}{r} 2 \quad 1 \\ \hline \end{array} = 31 \text{ ¢}_H$	
$\begin{array}{r} -1 \quad 9 \\ \hline \end{array} = 19 \text{ ¢}$	$\begin{array}{r} -0 \quad 9 \\ \hline \end{array} = 9 \text{ ¢}$	
$\begin{array}{r} 3 \quad 3 \\ \hline \end{array} = 33 \text{ ¢}_G$	$\begin{array}{r} 2 \quad 2 \\ \hline \end{array} = 22 \text{ ¢}_I$	

A.	B.	C.	D.	E.
17	35	22	48	23
15	23	42	40	70
F.	G.	H.	I.	J.
52	69	102	22	15
47	33	31	15	18

FENCING

CERCANDO

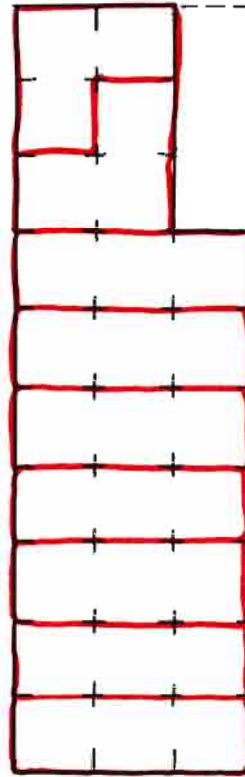


$$\underline{2} \quad \textcircled{7's} \quad \underline{\underline{14}}$$

$$\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array} \quad \begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array}$$

$$7 \overline{)14} \quad 2$$

$$2 \overline{)14} \quad 7$$



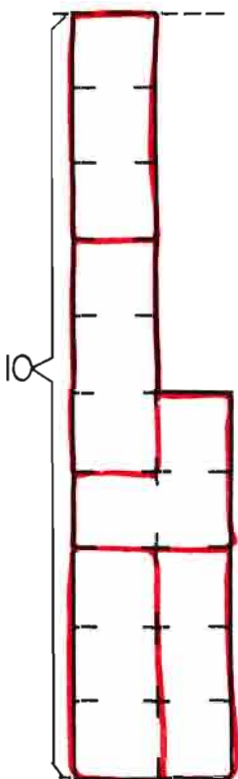
$$\underline{9} \quad \textcircled{3's} \quad \underline{\underline{27}}$$

$$\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array} \quad \begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$$

$$3 \overline{)27} \quad 9$$

$$9 \overline{)27} \quad 3$$

See also: D. & P. pp. 94 - 101, 124 - 130, 134 - 135

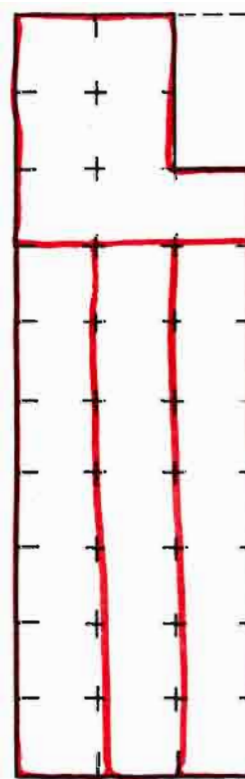


$$\underline{5} \quad \textcircled{3's} \quad \underline{\underline{15}}$$

$$\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array} \quad \begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$$

$$3 \overline{)15} \quad 5$$

$$5 \overline{)15} \quad 3$$



$$\underline{4} \quad \textcircled{7's} \quad \underline{\underline{28}}$$

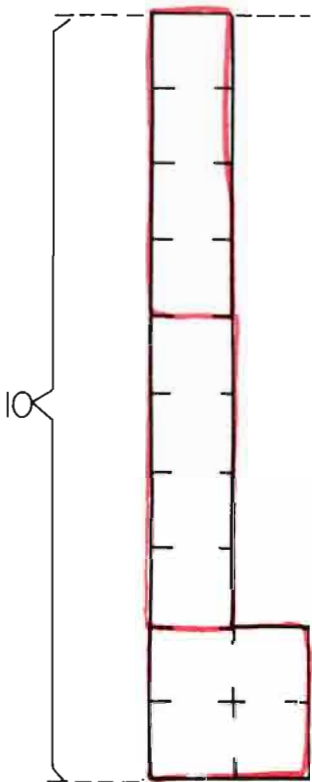
$$\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array} \quad \begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$$

$$7 \overline{)28} \quad 4$$

$$4 \overline{)28} \quad 7$$

FENCING

CERCANDO



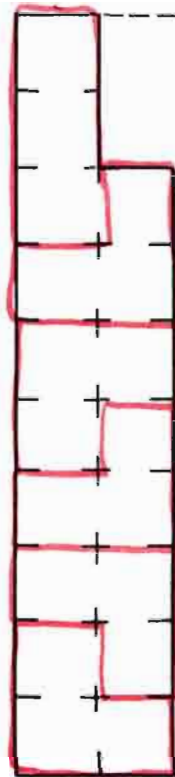
$$\underline{3 \text{ (4's)}} \quad \underline{\underline{12}}$$

$$\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$$

$$4 \overline{) 12} \quad 3$$

$$3 \overline{) 12} \quad 4$$



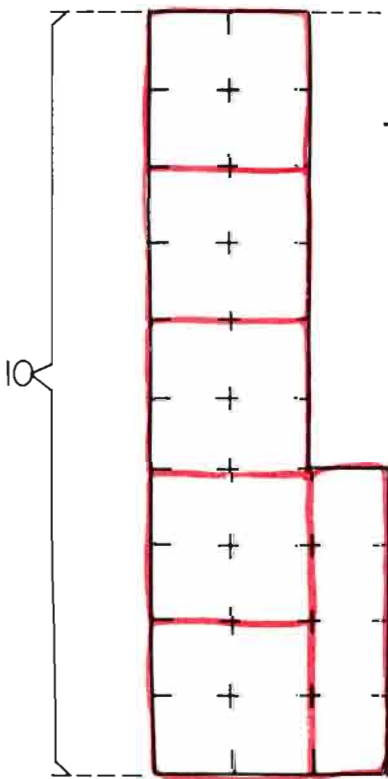
$$\underline{6 \text{ (3's)}} \quad \underline{\underline{18}}$$

$$\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$$

$$3 \overline{) 18} \quad 6$$

$$6 \overline{) 18} \quad 3$$



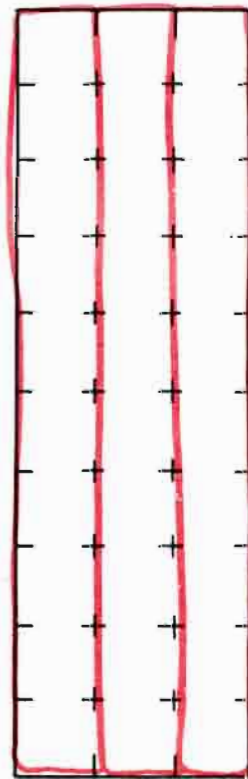
$$\underline{6 \text{ (4's)}} \quad \underline{\underline{24}}$$

$$\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$$

$$4 \overline{) 24} \quad 6$$

$$6 \overline{) 24} \quad 4$$



$$\underline{3 \text{ (10's)}} \quad \underline{\underline{30}}$$

$$\begin{array}{r} 3 \\ \times 10 \\ \hline 30 \end{array}$$

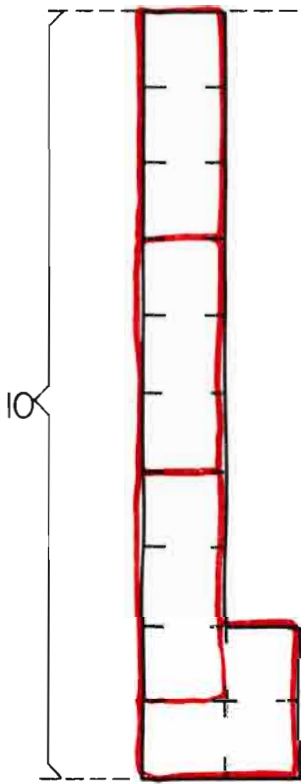
$$\begin{array}{r} 10 \\ \times 3 \\ \hline 30 \end{array}$$

$$10 \overline{) 30} \quad 3$$

$$3 \overline{) 30} \quad 10$$

FENCING

CERCANDO

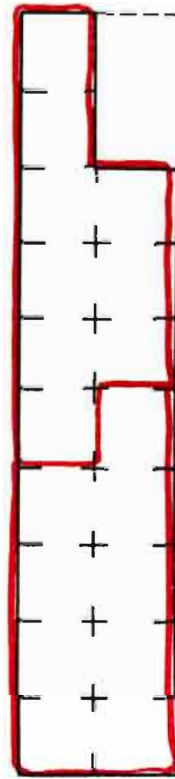


$$\underline{4} \text{ (3's)} \underline{\underline{12}}$$

$$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array} \quad \begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$$

$$3 \overline{) 12} \begin{array}{l} 4 \\ \hline \end{array}$$

$$4 \overline{) 12} \begin{array}{l} 3 \\ \hline \end{array}$$

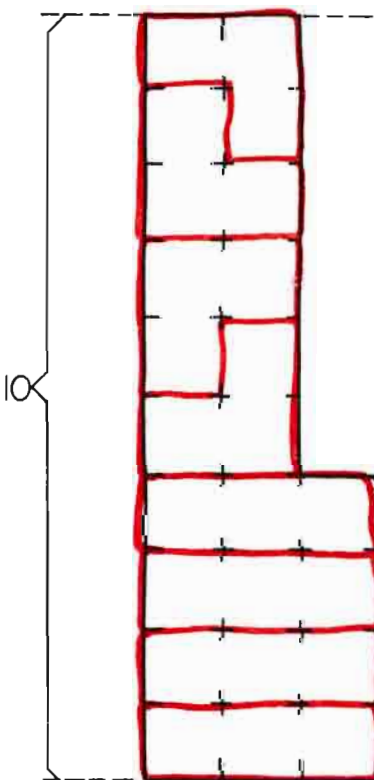


$$\underline{2} \text{ (9's)} \underline{\underline{18}}$$

$$\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array} \quad \begin{array}{r} 9 \\ \times 2 \\ \hline 18 \end{array}$$

$$9 \overline{) 18} \begin{array}{l} 2 \\ \hline \end{array}$$

$$2 \overline{) 18} \begin{array}{l} 9 \\ \hline \end{array}$$

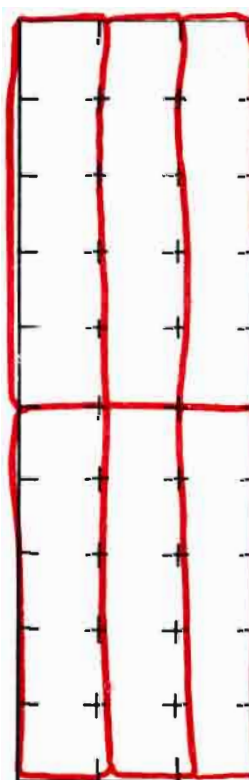


$$\underline{8} \text{ (3's)} \underline{\underline{24}}$$

$$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array} \quad \begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array}$$

$$3 \overline{) 24} \begin{array}{l} 8 \\ \hline \end{array}$$

$$8 \overline{) 24} \begin{array}{l} 3 \\ \hline \end{array}$$



$$\underline{6} \text{ (5's)} \underline{\underline{30}}$$

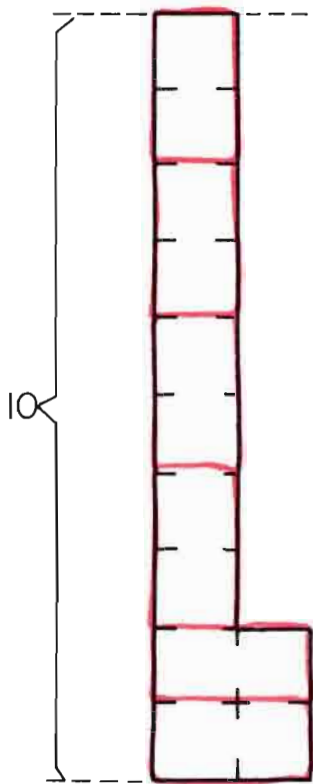
$$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array} \quad \begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$$

$$5 \overline{) 30} \begin{array}{l} 6 \\ \hline \end{array}$$

$$6 \overline{) 30} \begin{array}{l} 5 \\ \hline \end{array}$$

FENCING

CERCANDO

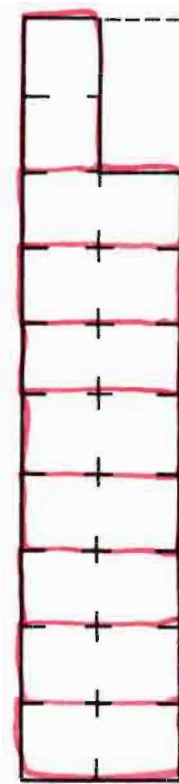


$$\underline{6} \text{ (2's)} \underline{\underline{12}}$$

$$\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array} \quad \begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$$

$$2 \overline{) 12} \begin{array}{r} 6 \\ \hline \end{array}$$

$$6 \overline{) 12} \begin{array}{r} 2 \\ \hline \end{array}$$

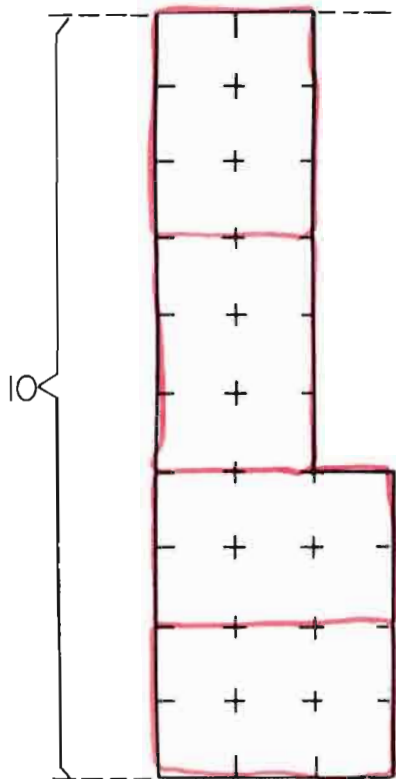


$$\underline{9} \text{ (2's)} \underline{\underline{18}}$$

$$\begin{array}{r} 9 \\ \times 2 \\ \hline 18 \end{array} \quad \begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$$

$$2 \overline{) 18} \begin{array}{r} 9 \\ \hline \end{array}$$

$$9 \overline{) 18} \begin{array}{r} 2 \\ \hline \end{array}$$

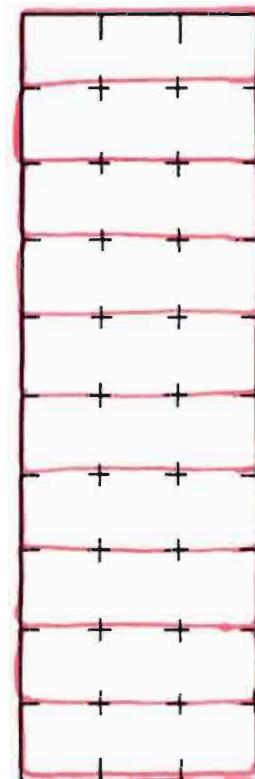


$$\underline{4} \text{ (6's)} \underline{\underline{24}}$$

$$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array} \quad \begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$$

$$6 \overline{) 24} \begin{array}{r} 4 \\ \hline \end{array}$$

$$4 \overline{) 24} \begin{array}{r} 6 \\ \hline \end{array}$$



$$\underline{10} \text{ (3's)} \underline{\underline{30}}$$

$$\begin{array}{r} 10 \\ \times 3 \\ \hline 30 \end{array} \quad \begin{array}{r} 3 \\ \times 10 \\ \hline 30 \end{array}$$

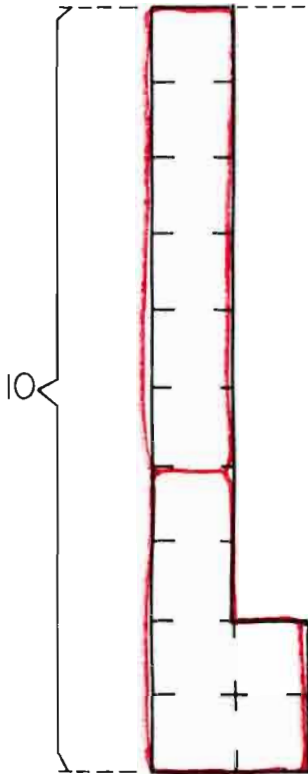
$$3 \overline{) 30} \begin{array}{r} 10 \\ \hline \end{array}$$

$$10 \overline{) 30} \begin{array}{r} 3 \\ \hline \end{array}$$



FENCING

CERCANDO

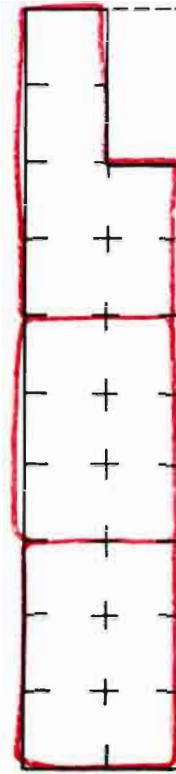


$$\underline{2} \text{ (6's)} \underline{\underline{12}}$$

$$\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array} \quad \begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$$

$$6 \overline{) 12} \begin{array}{l} 2 \\ \hline \end{array}$$

$$2 \overline{) 12} \begin{array}{l} 6 \\ \hline \end{array}$$

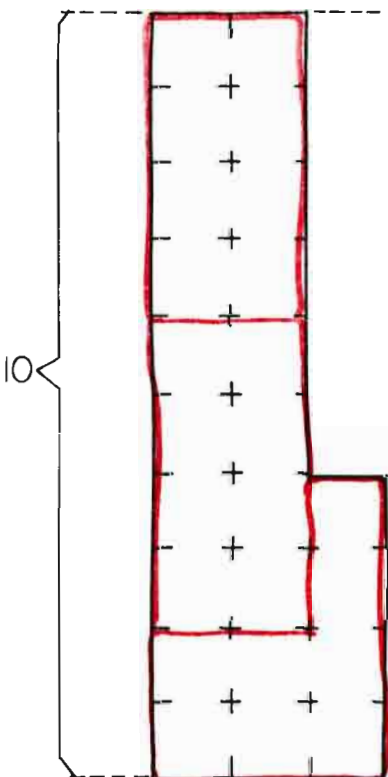


$$\underline{3} \text{ (6's)} \underline{\underline{18}}$$

$$\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array} \quad \begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$$

$$6 \overline{) 18} \begin{array}{l} 3 \\ \hline \end{array}$$

$$3 \overline{) 18} \begin{array}{l} 6 \\ \hline \end{array}$$

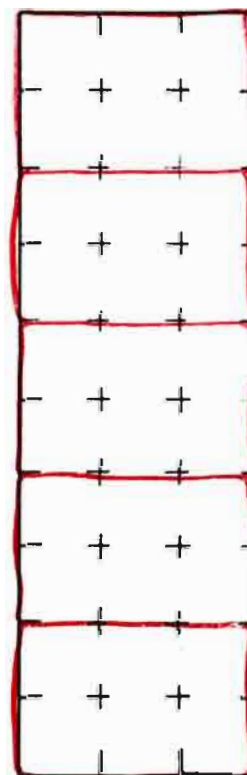


$$\underline{3} \text{ (8's)} \underline{\underline{24}}$$

$$\begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array} \quad \begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$$

$$8 \overline{) 24} \begin{array}{l} 3 \\ \hline \end{array}$$

$$3 \overline{) 24} \begin{array}{l} 8 \\ \hline \end{array}$$



$$\underline{5} \text{ (6's)} \underline{\underline{30}}$$

$$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array} \quad \begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$$

$$6 \overline{) 30} \begin{array}{l} 5 \\ \hline \end{array}$$

$$5 \overline{) 30} \begin{array}{l} 6 \\ \hline \end{array}$$

2, 3, 4, 5, 6, 7, 8, 9

Please make all examples different.

Favor de hacer todos los ejemplos diferentes.

$$\begin{array}{r} \times 4 \\ 3 \\ \hline 12 \end{array}$$

$$\begin{array}{r} \times 3 \\ 4 \\ \hline 12 \end{array}$$

$$\begin{array}{r} \times 6 \\ 2 \\ \hline 12 \end{array}$$

$$\begin{array}{r} \times 2 \\ 6 \\ \hline 12 \end{array}$$

$$\begin{array}{r} \times 7 \\ 2 \\ \hline 14 \end{array}$$

$$\begin{array}{r} \times 2 \\ 7 \\ \hline 14 \end{array}$$

$$\begin{array}{r} \times 5 \\ 3 \\ \hline 15 \end{array}$$

$$\begin{array}{r} \times 3 \\ 5 \\ \hline 15 \end{array}$$

$$\begin{array}{r} \times 4 \\ 4 \\ \hline 16 \end{array}$$

$$\begin{array}{r} \times 8 \\ 2 \\ \hline 16 \end{array}$$

$$\begin{array}{r} \times 2 \\ 8 \\ \hline 16 \end{array}$$

$$\begin{array}{r} \times 9 \\ 2 \\ \hline 18 \end{array}$$

$$\begin{array}{r} \times 2 \\ 9 \\ \hline 18 \end{array}$$

$$\begin{array}{r} \times 6 \\ 3 \\ \hline 18 \end{array}$$

$$\begin{array}{r} \times 3 \\ 6 \\ \hline 18 \end{array}$$

$$\begin{array}{r} \times 5 \\ 4 \\ \hline 20 \end{array}$$

$$\begin{array}{r} \times 4 \\ 5 \\ \hline 20 \end{array}$$

$$\begin{array}{r} \times 7 \\ 3 \\ \hline 21 \end{array}$$

$$\begin{array}{r} \times 3 \\ 7 \\ \hline 21 \end{array}$$

$$\begin{array}{r} \times 8 \\ 3 \\ \hline 24 \end{array}$$

$$\begin{array}{r} \times 3 \\ 8 \\ \hline 24 \end{array}$$

$$\begin{array}{r} \times 6 \\ 4 \\ \hline 24 \end{array}$$

$$\begin{array}{r} \times 4 \\ 6 \\ \hline 24 \end{array}$$

$$\begin{array}{r} \times 5 \\ 5 \\ \hline 25 \end{array}$$

$$\begin{array}{r} \times 9 \\ 3 \\ \hline 27 \end{array}$$

$$\begin{array}{r} \times 3 \\ 9 \\ \hline 27 \end{array}$$

$$\begin{array}{r} \times 7 \\ 4 \\ \hline 28 \end{array}$$

$$\begin{array}{r} \times 4 \\ 7 \\ \hline 28 \end{array}$$

1	2	3
4	5	6
7	8	9
10		12
		15
		18

1	2	3	4
5			8
	10		12
		15	16
			20
			24

1	2	3	4	5
		8		10
	12			15
16				20
			24	25
	28			30

1	2	3	4	5	6
			10		12
		15			18
	20				24
25					30
				35	36

How many do you remember?

¿De cuántos se acuerda usted?

The child can self-check with horizontal, vertical, or diagonal patterns.

$\begin{array}{r} 0 \\ + 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ + 0 \\ \hline 1 \end{array}$	$\begin{array}{r} 2 \\ + 0 \\ \hline 2 \end{array}$	$\begin{array}{r} 3 \\ + 0 \\ \hline 3 \end{array}$	$\begin{array}{r} 4 \\ + 0 \\ \hline 4 \end{array}$	$\begin{array}{r} 5 \\ + 0 \\ \hline 5 \end{array}$	$\begin{array}{r} 6 \\ + 0 \\ \hline 6 \end{array}$	$\begin{array}{r} 7 \\ + 0 \\ \hline 7 \end{array}$	$\begin{array}{r} 8 \\ + 0 \\ \hline 8 \end{array}$	$\begin{array}{r} 9 \\ + 0 \\ \hline 9 \end{array}$
$\begin{array}{r} 0 \\ + 1 \\ \hline 1 \end{array}$	$\begin{array}{r} 1 \\ + 1 \\ \hline 2 \end{array}$	$\begin{array}{r} 2 \\ + 1 \\ \hline 3 \end{array}$	$\begin{array}{r} 3 \\ + 1 \\ \hline 4 \end{array}$	$\begin{array}{r} 4 \\ + 1 \\ \hline 5 \end{array}$	$\begin{array}{r} 5 \\ + 1 \\ \hline 6 \end{array}$	$\begin{array}{r} 6 \\ + 1 \\ \hline 7 \end{array}$	$\begin{array}{r} 7 \\ + 1 \\ \hline 8 \end{array}$	$\begin{array}{r} 8 \\ + 1 \\ \hline 9 \end{array}$	$\begin{array}{r} 9 \\ + 1 \\ \hline 10 \end{array}$
$\begin{array}{r} 0 \\ + 2 \\ \hline 2 \end{array}$	$\begin{array}{r} 1 \\ + 2 \\ \hline 3 \end{array}$	$\begin{array}{r} 2 \\ + 2 \\ \hline 4 \end{array}$	$\begin{array}{r} 3 \\ + 2 \\ \hline 5 \end{array}$	$\begin{array}{r} 4 \\ + 2 \\ \hline 6 \end{array}$	$\begin{array}{r} 5 \\ + 2 \\ \hline 7 \end{array}$	$\begin{array}{r} 6 \\ + 2 \\ \hline 8 \end{array}$	$\begin{array}{r} 7 \\ + 2 \\ \hline 9 \end{array}$	$\begin{array}{r} 8 \\ + 2 \\ \hline 10 \end{array}$	$\begin{array}{r} 9 \\ + 2 \\ \hline 11 \end{array}$
$\begin{array}{r} 0 \\ + 3 \\ \hline 3 \end{array}$	$\begin{array}{r} 1 \\ + 3 \\ \hline 4 \end{array}$	$\begin{array}{r} 2 \\ + 3 \\ \hline 5 \end{array}$	$\begin{array}{r} 3 \\ + 3 \\ \hline 6 \end{array}$	$\begin{array}{r} 4 \\ + 3 \\ \hline 7 \end{array}$	$\begin{array}{r} 5 \\ + 3 \\ \hline 8 \end{array}$	$\begin{array}{r} 6 \\ + 3 \\ \hline 9 \end{array}$	$\begin{array}{r} 7 \\ + 3 \\ \hline 10 \end{array}$	$\begin{array}{r} 8 \\ + 3 \\ \hline 11 \end{array}$	$\begin{array}{r} 9 \\ + 3 \\ \hline 12 \end{array}$
$\begin{array}{r} 0 \\ + 4 \\ \hline 4 \end{array}$	$\begin{array}{r} 1 \\ + 4 \\ \hline 5 \end{array}$	$\begin{array}{r} 2 \\ + 4 \\ \hline 6 \end{array}$	$\begin{array}{r} 3 \\ + 4 \\ \hline 7 \end{array}$	$\begin{array}{r} 4 \\ + 4 \\ \hline 8 \end{array}$	$\begin{array}{r} 5 \\ + 4 \\ \hline 9 \end{array}$	$\begin{array}{r} 6 \\ + 4 \\ \hline 10 \end{array}$	$\begin{array}{r} 7 \\ + 4 \\ \hline 11 \end{array}$	$\begin{array}{r} 8 \\ + 4 \\ \hline 12 \end{array}$	$\begin{array}{r} 9 \\ + 4 \\ \hline 13 \end{array}$
$\begin{array}{r} 0 \\ + 5 \\ \hline 5 \end{array}$	$\begin{array}{r} 1 \\ + 5 \\ \hline 6 \end{array}$	$\begin{array}{r} 2 \\ + 5 \\ \hline 7 \end{array}$	$\begin{array}{r} 3 \\ + 5 \\ \hline 8 \end{array}$	$\begin{array}{r} 4 \\ + 5 \\ \hline 9 \end{array}$	$\begin{array}{r} 5 \\ + 5 \\ \hline 10 \end{array}$	$\begin{array}{r} 6 \\ + 5 \\ \hline 11 \end{array}$	$\begin{array}{r} 7 \\ + 5 \\ \hline 12 \end{array}$	$\begin{array}{r} 8 \\ + 5 \\ \hline 13 \end{array}$	$\begin{array}{r} 9 \\ + 5 \\ \hline 14 \end{array}$
$\begin{array}{r} 0 \\ + 6 \\ \hline 6 \end{array}$	$\begin{array}{r} 1 \\ + 6 \\ \hline 7 \end{array}$	$\begin{array}{r} 2 \\ + 6 \\ \hline 8 \end{array}$	$\begin{array}{r} 3 \\ + 6 \\ \hline 9 \end{array}$	$\begin{array}{r} 4 \\ + 6 \\ \hline 10 \end{array}$	$\begin{array}{r} 5 \\ + 6 \\ \hline 11 \end{array}$	$\begin{array}{r} 6 \\ + 6 \\ \hline 12 \end{array}$	$\begin{array}{r} 7 \\ + 6 \\ \hline 13 \end{array}$	$\begin{array}{r} 8 \\ + 6 \\ \hline 14 \end{array}$	$\begin{array}{r} 9 \\ + 6 \\ \hline 15 \end{array}$
$\begin{array}{r} 0 \\ + 7 \\ \hline 7 \end{array}$	$\begin{array}{r} 1 \\ + 7 \\ \hline 8 \end{array}$	$\begin{array}{r} 2 \\ + 7 \\ \hline 9 \end{array}$	$\begin{array}{r} 3 \\ + 7 \\ \hline 10 \end{array}$	$\begin{array}{r} 4 \\ + 7 \\ \hline 11 \end{array}$	$\begin{array}{r} 5 \\ + 7 \\ \hline 12 \end{array}$	$\begin{array}{r} 6 \\ + 7 \\ \hline 13 \end{array}$	$\begin{array}{r} 7 \\ + 7 \\ \hline 14 \end{array}$	$\begin{array}{r} 8 \\ + 7 \\ \hline 15 \end{array}$	$\begin{array}{r} 9 \\ + 7 \\ \hline 16 \end{array}$
$\begin{array}{r} 0 \\ + 8 \\ \hline 8 \end{array}$	$\begin{array}{r} 1 \\ + 8 \\ \hline 9 \end{array}$	$\begin{array}{r} 2 \\ + 8 \\ \hline 10 \end{array}$	$\begin{array}{r} 3 \\ + 8 \\ \hline 11 \end{array}$	$\begin{array}{r} 4 \\ + 8 \\ \hline 12 \end{array}$	$\begin{array}{r} 5 \\ + 8 \\ \hline 13 \end{array}$	$\begin{array}{r} 6 \\ + 8 \\ \hline 14 \end{array}$	$\begin{array}{r} 7 \\ + 8 \\ \hline 15 \end{array}$	$\begin{array}{r} 8 \\ + 8 \\ \hline 16 \end{array}$	$\begin{array}{r} 9 \\ + 8 \\ \hline 17 \end{array}$
$\begin{array}{r} 0 \\ + 9 \\ \hline 9 \end{array}$	$\begin{array}{r} 1 \\ + 9 \\ \hline 10 \end{array}$	$\begin{array}{r} 2 \\ + 9 \\ \hline 11 \end{array}$	$\begin{array}{r} 3 \\ + 9 \\ \hline 12 \end{array}$	$\begin{array}{r} 4 \\ + 9 \\ \hline 13 \end{array}$	$\begin{array}{r} 5 \\ + 9 \\ \hline 14 \end{array}$	$\begin{array}{r} 6 \\ + 9 \\ \hline 15 \end{array}$	$\begin{array}{r} 7 \\ + 9 \\ \hline 16 \end{array}$	$\begin{array}{r} 8 \\ + 9 \\ \hline 17 \end{array}$	$\begin{array}{r} 9 \\ + 9 \\ \hline 18 \end{array}$

How many above the heavy line do you remember?

¿De cuántos de los que están sobre la línea gruesa se acuerda usted?

Point out to the child that there are only 26 new facts to work with. He already knows 74. He can figure out the answers to these 26 by just completing the pattern in each row and column.

$\begin{array}{r} 0 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 0 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 0 \\ \hline \end{array}$
$\begin{array}{r} 0 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 1 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 1 \\ \hline \end{array}$
$\begin{array}{r} 0 \\ \times 2 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ \times 2 \\ \hline 2 \end{array}$	$\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$	$\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$	$\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$	$\begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array}$	$\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$	$\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array}$	$\begin{array}{r} 8 \\ \times 2 \\ \hline 16 \end{array}$	$\begin{array}{r} 9 \\ \times 2 \\ \hline 18 \end{array}$
$\begin{array}{r} 0 \\ \times 3 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ \times 3 \\ \hline 3 \end{array}$	$\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$	$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$	$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$	$\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$	$\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$	$\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$	$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$	$\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$
$\begin{array}{r} 0 \\ \times 4 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ \times 4 \\ \hline 4 \end{array}$	$\begin{array}{r} 2 \\ \times 4 \\ \hline 8 \end{array}$	$\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$	$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$	$\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$	$\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$	$\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$	$\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$	$\begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array}$
$\begin{array}{r} 0 \\ \times 5 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ \times 5 \\ \hline 5 \end{array}$	$\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$	$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$	$\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$	$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$	$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$	$\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$	$\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$	$\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array}$
$\begin{array}{r} 0 \\ \times 6 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ \times 6 \\ \hline 6 \end{array}$	$\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$	$\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$	$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$	$\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$	$\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$	$\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$	$\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$	$\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$
$\begin{array}{r} 0 \\ \times 7 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ \times 7 \\ \hline 7 \end{array}$	$\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$	$\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$	$\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$	$\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$	$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$	$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$	$\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$	$\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$
$\begin{array}{r} 0 \\ \times 8 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ \times 8 \\ \hline 8 \end{array}$	$\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$	$\begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array}$	$\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$	$\begin{array}{r} 5 \\ \times 8 \\ \hline 40 \end{array}$	$\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$	$\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$	$\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$	$\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$
$\begin{array}{r} 0 \\ \times 9 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ \times 9 \\ \hline 9 \end{array}$	$\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$	$\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$	$\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$	$\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$	$\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$	$\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$	$\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$	$\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$

$\begin{array}{r} 20 \\ - 8 \\ \hline 12 \end{array}$	$\begin{array}{r} 26 \\ - 8 \\ \hline 18 \end{array}$	$\begin{array}{r} 34 \\ - 8 \\ \hline 26 \end{array}$	$\begin{array}{r} 28 \\ - 8 \\ \hline 20 \end{array}$	$\begin{array}{r} 33 \\ - 8 \\ \hline 25 \end{array}$

Fencing

Cercando

$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$ $4 \overline{) 16}$ $4 \overline{) 16}$ <p><u>4</u> (4's) <u>16</u></p>	$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$ $\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$ $4 \overline{) 16}$ $6 \overline{) 24}$ $4 \overline{) 24}$ <p><u>4</u> (6's) <u>24</u></p>	$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$ $\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$ $5 \overline{) 30}$ $6 \overline{) 30}$ <p><u>6</u> (5's) <u>30</u></p>
-----------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

¿Cómo se siente?

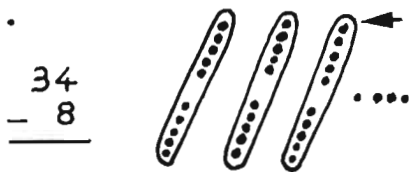


How do you feel?

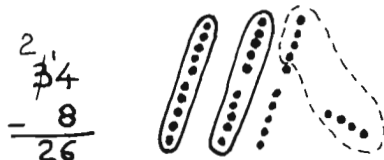
Dear Parents,

On the check-up exercise on the back of this page your child has successfully computed subtraction problems where "regrouping" (borrowing) was necessary. The place value sketches are still there, though you may have seen pages coming home prior to this one where there were no sketches for a number of problems. For some children these representations are no longer needed, but can still be used for "self-checking".

If your child is using the pictures then the need is probably still there. You can ask your child about the process used to do the subtraction. If the concept of regrouping the tens and ones is still a little shady, you may be able to help with the use of 10-sticks and loose beans, as suggested in the previous book, or with dimes and pennies.



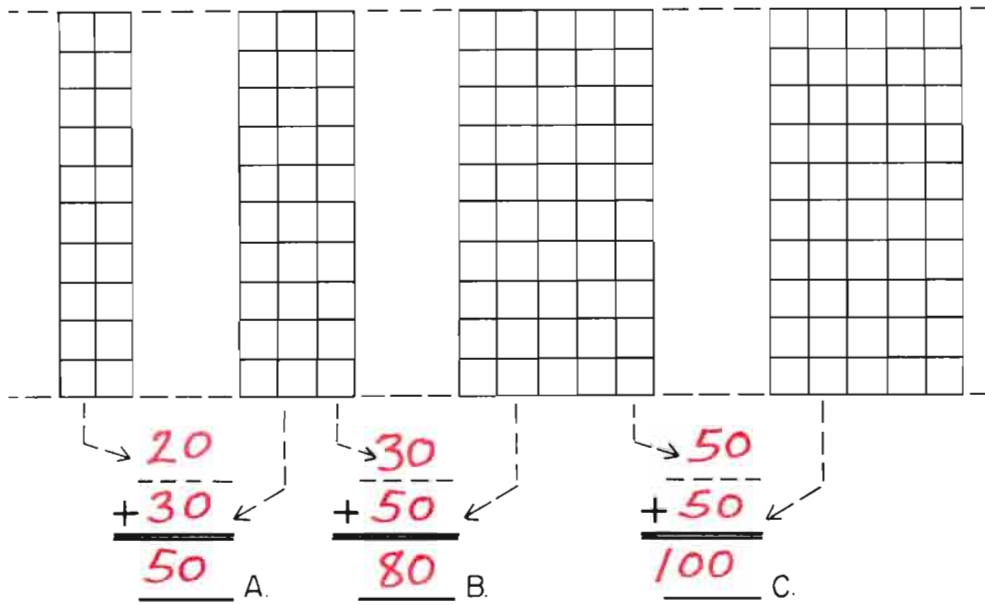
You have to trade this for 10 loose beans, mark on the notation that you now have only 2 tens (ten sticks, dimes) and complete the subtraction, working with the ones (loose beans, pennies) first.



This is a very difficult activity for many children to learn to perform at

the abstract level, so it's important to give as much time as necessary to manipulations and representations. Once frustration and failure begin, chances for learning diminish quickly. We can't stress enough that the child's attitude about math and about himself as a participant in the activities of math are the decisive factors in what is learned. So we can all learn more math if we take the time needed for clarity and enjoyment! All the support and encouragement you can give your child is so valuable - and well appreciated.

Sincerely,



Related examples  
Ejemplos relacionados

$$\begin{array}{r} 40 \\ + 50 \\ \hline 90 \end{array}$$

$$\begin{array}{r} 40 \\ + 60 \\ \hline 100 \end{array}$$

$$\begin{array}{r} 60 \\ + 50 \\ \hline 110 \end{array}$$

$$\begin{array}{r} 60 \\ + 70 \\ \hline 130 \end{array}$$

$$\begin{array}{r} 20 \\ + 25 \\ \hline 45 \end{array}$$

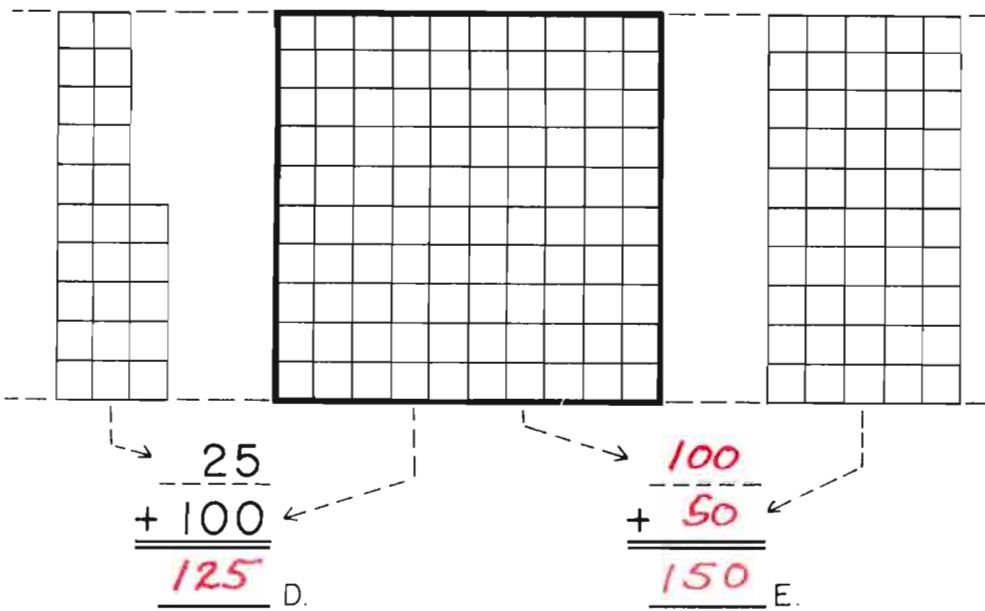
$$\begin{array}{r} 25 \\ + 25 \\ \hline 50 \end{array}$$

$$\begin{array}{r} 30 \\ + 25 \\ \hline 55 \end{array}$$

$$\begin{array}{r} 35 \\ + 25 \\ \hline 60 \end{array}$$

$$\begin{array}{r} 45 \\ + 25 \\ \hline 70 \end{array}$$

$$\begin{array}{r} 45 \\ + 45 \\ \hline 90 \end{array}$$



A.	B.	C.
50	80	95
40	70	100

D.	E.	F.
115	150	115
125	90	125

Do you need sketches for the following?

¿Necesita dibujos para lo siguiente?

$$\begin{array}{r} 100 \\ + 15 \\ \hline 115 \end{array}$$
 F.

$$\begin{array}{r} 100 \\ + 10 \\ \hline 110 \end{array}$$
 G.

$$\begin{array}{r} 100 \\ + 1 \\ \hline 101 \end{array}$$
 H.

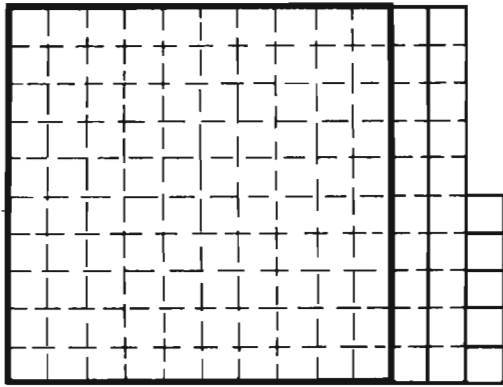
$$\begin{array}{r} 100 \\ + 86 \\ \hline 186 \end{array}$$
 I.

$$\begin{array}{r} 100 \\ + 100 \\ \hline 200 \end{array}$$
 J.

See also: D.I. pp. 61, 67, 76

G.	H.	I.	J.
120	101	175	209
110	107	186	200

125 . . . and more  
 . . . y más

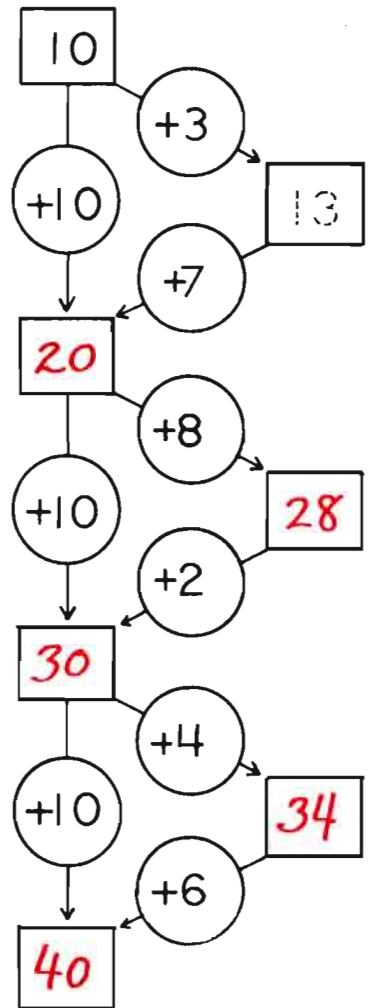


1 100's, 2 10's, 5 1's

$$\begin{array}{r} 125 \\ + 3 \\ \hline 128 \end{array} \text{ A.}$$

$$\begin{array}{r} 125 \\ + 5 \\ \hline 130 \end{array} \text{ B.}$$

$$\begin{array}{r} 125 \\ + 10 \\ \hline 135 \end{array} \text{ C.}$$



$$\begin{array}{r} 125 \\ + 20 \\ \hline 145 \end{array} \text{ D.}$$

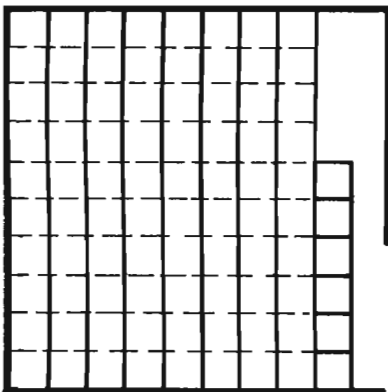
$$\begin{array}{r} 125 \\ + 25 \\ \hline 150 \end{array} \text{ E.}$$

$$\begin{array}{r} 125 \\ + 50 \\ \hline 175 \end{array} \text{ F.}$$

$$\begin{array}{r} 125 \\ + 70 \\ \hline 195 \end{array} \text{ G.}$$

$$\begin{array}{r} 125 \\ + 75 \\ \hline 200 \end{array} \text{ H.}$$

86



0 100's, 8 10's, 6 1's

$$\begin{array}{r} 86 \\ + 3 \\ \hline 89 \end{array} \text{ C.}$$

$$\begin{array}{r} 86 \\ + 4 \\ \hline 90 \end{array} \text{ D.}$$

$$\begin{array}{r} 86 \\ + 12 \\ \hline 98 \end{array} \text{ E.}$$

$$\begin{array}{r} 86 \\ + 14 \\ \hline 100 \end{array} \text{ F.}$$

$$\begin{array}{r} 86 \\ + 15 \\ \hline 101 \end{array} \text{ G.}$$

$$\begin{array}{r} 86 \\ + 20 \\ \hline 106 \end{array} \text{ H.}$$

$$\begin{array}{r} 86 \\ + 23 \\ \hline 109 \end{array} \text{ I.}$$

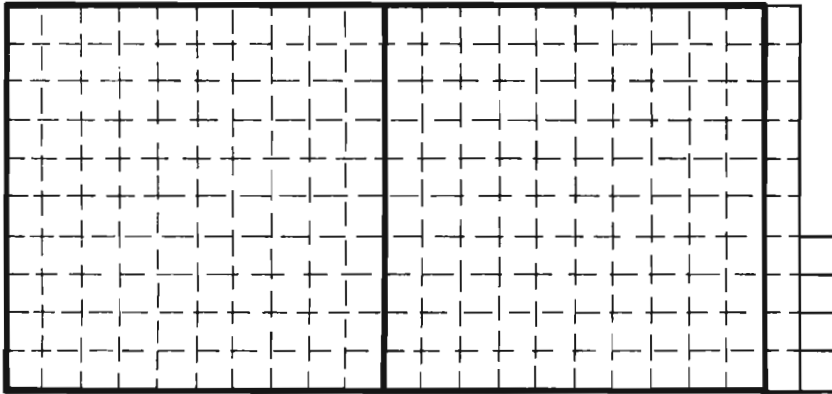
$$\begin{array}{r} 86 \\ + 24 \\ \hline 110 \end{array} \text{ J.}$$

A.	B.	C.	D.	E.
128	6	93	145	120
8	130	89	130	98
72	19	135	90	150

F.	G.	H.	I.	J.
100	156	200	78	102
175	195	220	109	94
145	101	106	115	110



214

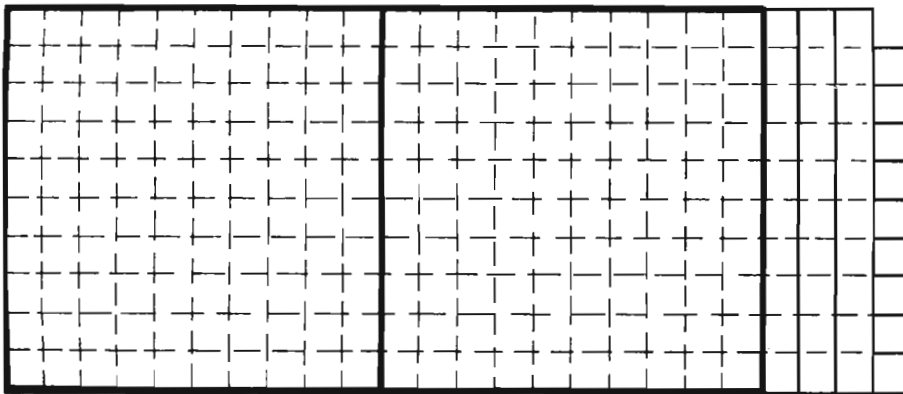


2 100's, 1 10's, 4 1's

$\begin{array}{r} 214 \\ + 5 \\ \hline 219 \end{array}$	$\begin{array}{r} 214 \\ + 6 \\ \hline 220 \end{array}$	$\begin{array}{r} 214 \\ + 8 \\ \hline 222 \end{array}$	$\begin{array}{r} 214 \\ + 35 \\ \hline 249 \end{array}$	$\begin{array}{r} 214 \\ + 37 \\ \hline 251 \end{array}$
----- A.	----- B.	----- C.	----- D.	----- E.

See also: D.I. pp. 61-69, 76-80, 83-85

239.....



2 100's, 3 10's, 9 1's

$\begin{array}{r} 239 \\ + 1 \\ \hline 240 \end{array}$	$\begin{array}{r} 239 \\ + 10 \\ \hline 249 \end{array}$	$\begin{array}{r} 239 \\ + 11 \\ \hline 250 \end{array}$	$\begin{array}{r} 239 \\ + 40 \\ \hline 279 \end{array}$	$\begin{array}{r} 239 \\ + 41 \\ \hline 280 \end{array}$
----- A.	----- B.	----- C.	----- D.	----- E.

Related examples  
Ejemplos relacionados

$\begin{array}{r} 14 \\ + 8 \\ \hline 22 \end{array}$	$\begin{array}{r} 14 \\ + 18 \\ \hline 32 \end{array}$
-------------------------------------------------------	--------------------------------------------------------

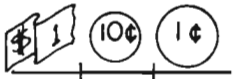
$\begin{array}{r} 24 \\ + 18 \\ \hline 42 \end{array}$	$\begin{array}{r} 24 \\ + 28 \\ \hline 52 \end{array}$
--------------------------------------------------------	--------------------------------------------------------

$\begin{array}{r} 24 \\ + 19 \\ \hline 43 \end{array}$	$\begin{array}{r} 24 \\ + 29 \\ \hline 53 \end{array}$
--------------------------------------------------------	--------------------------------------------------------

$\begin{array}{r} 24 \\ + 39 \\ \hline 63 \end{array}$	$\begin{array}{r} 29 \\ + 34 \\ \hline 63 \end{array}$
--------------------------------------------------------	--------------------------------------------------------

$\begin{array}{r} 39 \\ + 34 \\ \hline 73 \end{array}$	$\begin{array}{r} 49 \\ + 35 \\ \hline 84 \end{array}$
--------------------------------------------------------	--------------------------------------------------------

A.	B.	C.	D.	E.
219	227	222	249	280
240	249	232	279	263
234	220	250	268	251



$$\begin{array}{r} 150 \\ + 250 \\ \hline 400 \end{array}$$

$$\begin{array}{r} 275 \\ + 107 \\ \hline 382 \end{array}$$

$$\begin{array}{r} 275 \\ + 150 \\ \hline 425 \end{array}$$

You will probably want to discuss the re-grouping of ten dimes to a new dollar, referring to hundreds rafts and ten sticks. Use of

$$\begin{array}{r} 162 \\ + 343 \\ \hline 505 \end{array}$$

$$\begin{array}{r} 125 \\ + 125 \\ \hline 250 \end{array}$$

$$\begin{array}{r} 152 \\ + 152 \\ \hline 304 \end{array}$$

rafts and sticks may be necessary for some children.

$$\begin{array}{r} 764 \\ + 145 \\ \hline 909 \end{array}$$

$$\begin{array}{r} 746 \\ + 145 \\ \hline 891 \end{array}$$

$$\begin{array}{r} 275 \\ + 25 \\ \hline 300 \end{array}$$

$$\begin{array}{r} 25 \\ + 25 \\ \hline 50 \end{array}$$

$$\begin{array}{r} 50 \\ + 50 \\ \hline 100 \end{array}$$

$$\begin{array}{r} 75 \\ + 75 \\ \hline 150 \end{array}$$

$$\begin{array}{r} 150 \\ + 150 \\ \hline 300 \end{array}$$

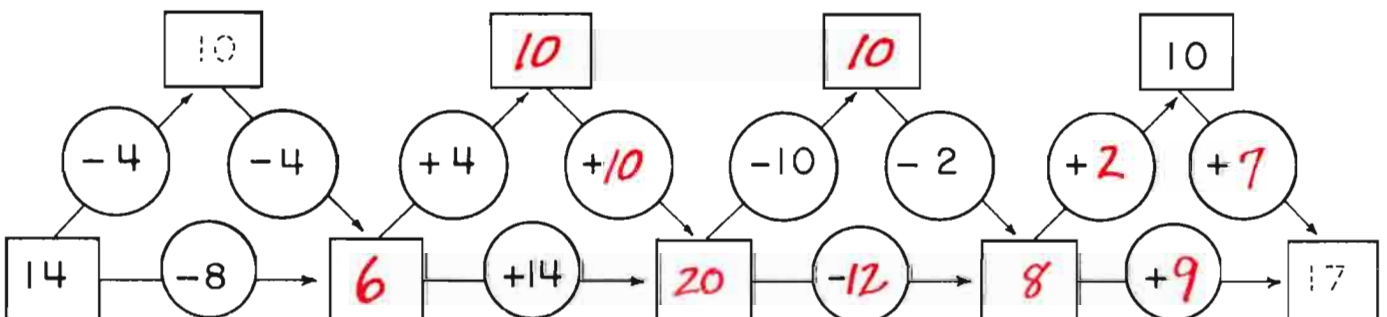
$$\begin{array}{r} 175 \\ + 175 \\ \hline 350 \end{array}$$

A	909	400	300
B	382	350	891
C	9	300	425
D	50	505	8
E	9	100	250
F	304	225	150

$$18 - 9 = 9$$

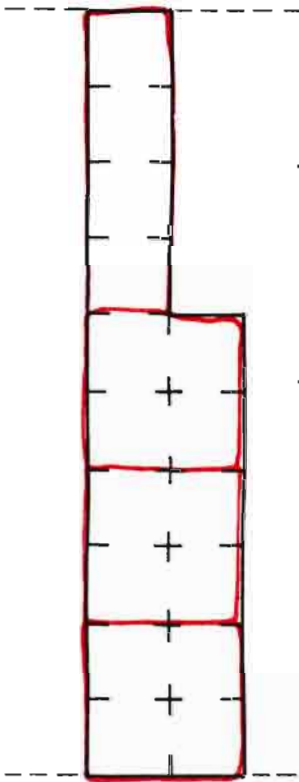
$$16 - 8 = 8$$

$$15 - 6 = 9$$



FENCING

CERCANDO

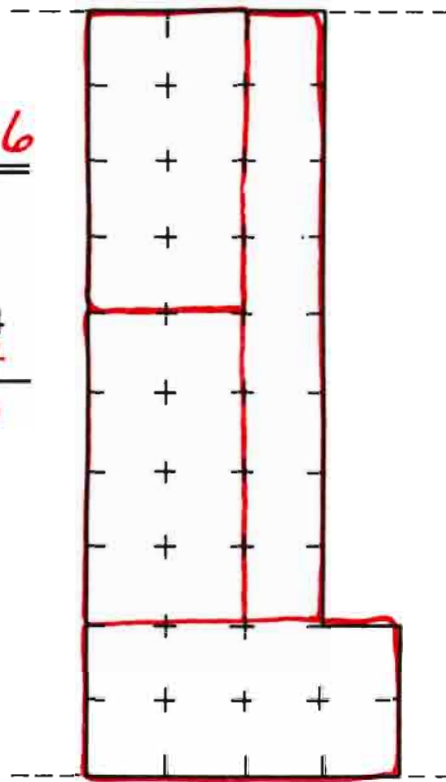


$$\underline{4} \text{ (4's) } \underline{\underline{16}}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array} \quad \begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$$

$$4 \overline{) 16} \quad 4$$

$$4 \overline{) 16} \quad 4$$

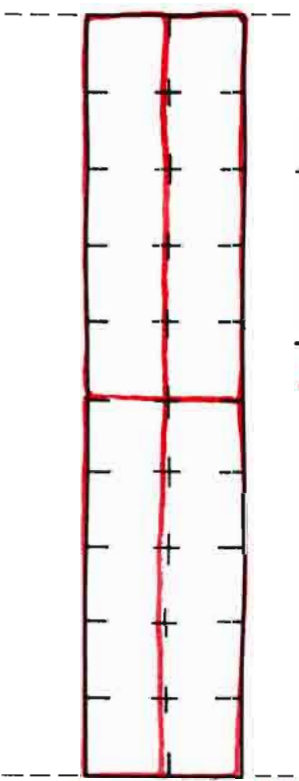


$$\underline{4} \text{ (8's) } \underline{\underline{32}}$$

$$\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array} \quad \begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$$

$$8 \overline{) 32} \quad 4$$

$$4 \overline{) 32} \quad 8$$

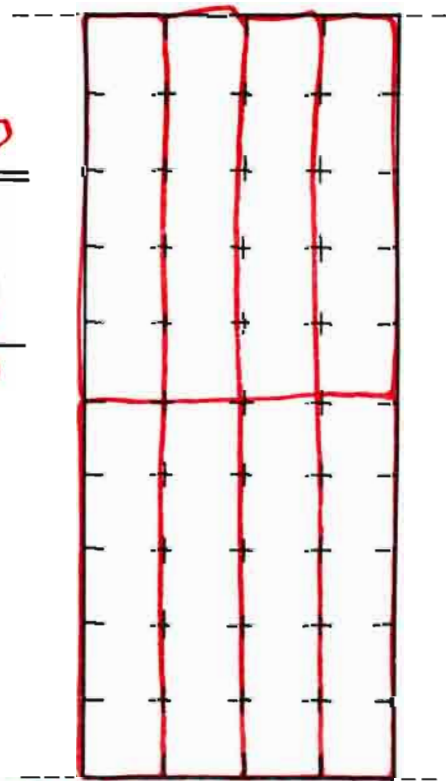


$$\underline{4} \text{ (5's) } \underline{\underline{20}}$$

$$\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array} \quad \begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$$

$$5 \overline{) 20} \quad 4$$

$$4 \overline{) 20} \quad 5$$



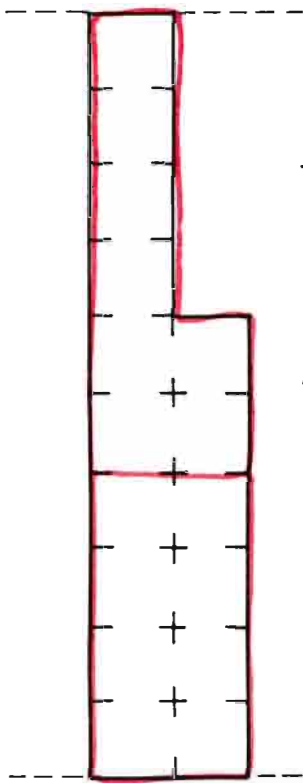
$$\underline{8} \text{ (5's) } \underline{\underline{40}}$$

$$\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array} \quad \begin{array}{r} 5 \\ \times 8 \\ \hline 40 \end{array}$$

$$5 \overline{) 40} \quad 8$$

$$8 \overline{) 40} \quad 5$$

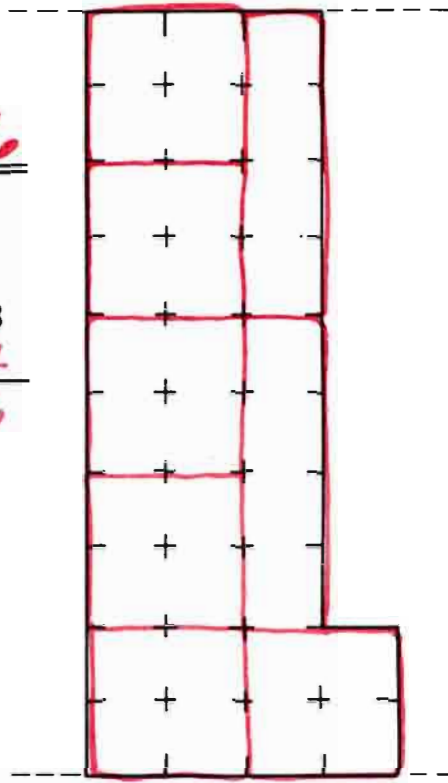
See also: D&P pp. 124-130, 134-135, 149-153



$$\begin{array}{l} \underline{2} \text{ (8's)} \quad \underline{\underline{16}} \\ \times 8 \\ \hline 16 \end{array} \quad \begin{array}{l} \underline{8} \\ \times 2 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 2 \\ 8 \overline{) 16} \end{array}$$

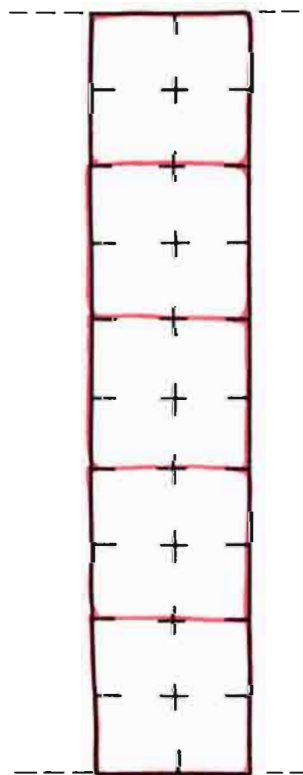
$$\begin{array}{r} 8 \\ 2 \overline{) 16} \end{array}$$



$$\begin{array}{l} \underline{8} \text{ (4's)} \quad \underline{\underline{32}} \\ \times 4 \\ \hline 32 \end{array} \quad \begin{array}{l} \underline{4} \\ \times 8 \\ \hline 32 \end{array}$$

$$\begin{array}{r} 8 \\ 4 \overline{) 32} \end{array}$$

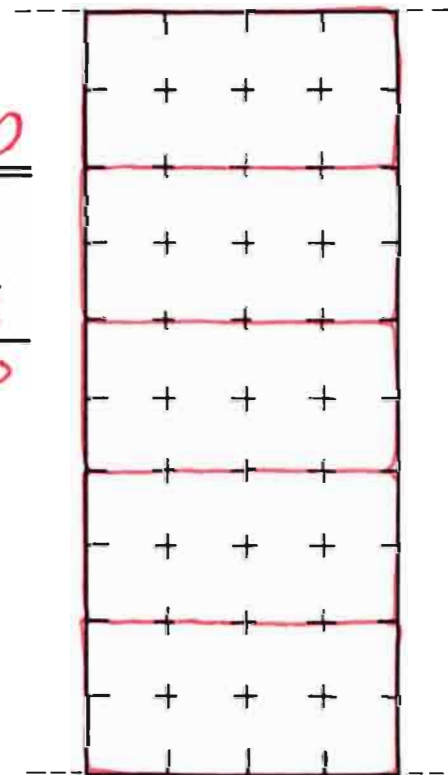
$$\begin{array}{r} 4 \\ 8 \overline{) 32} \end{array}$$



$$\begin{array}{l} \underline{5} \text{ (4's)} \quad \underline{\underline{20}} \\ \times 4 \\ \hline 20 \end{array} \quad \begin{array}{l} \underline{4} \\ \times 5 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 5 \\ 4 \overline{) 20} \end{array}$$

$$\begin{array}{r} 4 \\ 5 \overline{) 20} \end{array}$$



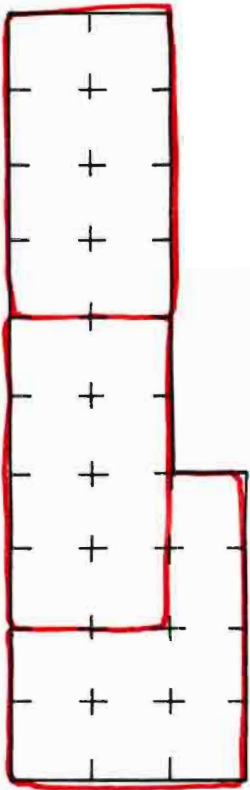
$$\begin{array}{l} \underline{5} \text{ (8's)} \quad \underline{\underline{40}} \\ \times 8 \\ \hline 40 \end{array} \quad \begin{array}{l} \underline{8} \\ \times 5 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 5 \\ 8 \overline{) 40} \end{array}$$

$$\begin{array}{r} 8 \\ 5 \overline{) 40} \end{array}$$

FENCING

CERCANDO

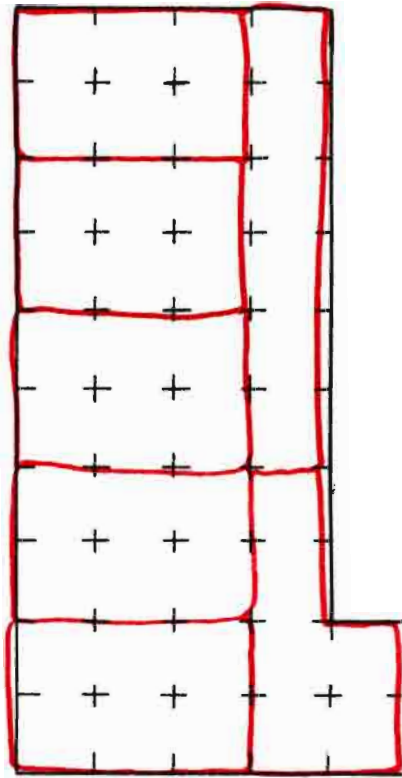


$$\underline{3} \text{ (8's)} \underline{\underline{24}}$$

$$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array} \quad \begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array}$$

$$8 \overline{) 24} \quad 3$$

$$3 \overline{) 24} \quad 8$$

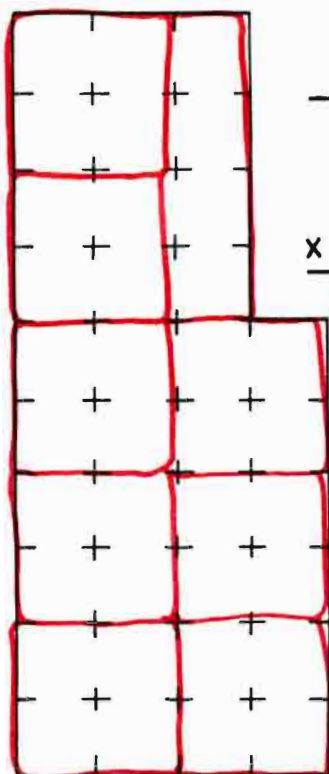


$$\underline{7} \text{ (6's)} \underline{\underline{42}}$$

$$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array} \quad \begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$$

$$6 \overline{) 42} \quad 7$$

$$7 \overline{) 42} \quad 6$$

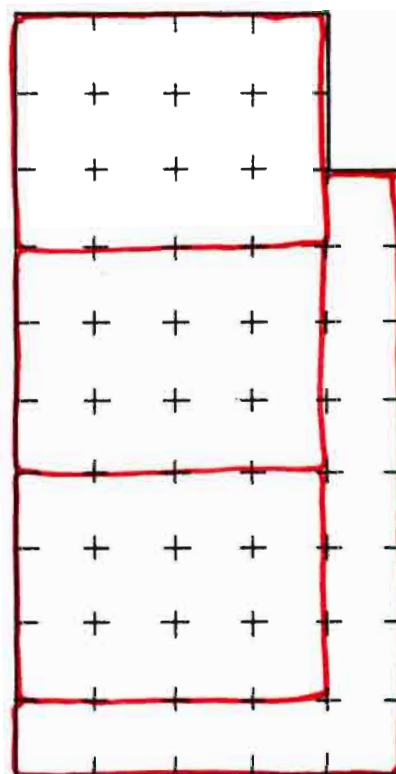


$$\underline{9} \text{ (4's)} \underline{\underline{36}}$$

$$\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array} \quad \begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array}$$

$$4 \overline{) 36} \quad 9$$

$$9 \overline{) 36} \quad 4$$



$$\underline{4} \text{ (12's)} \underline{\underline{48}}$$

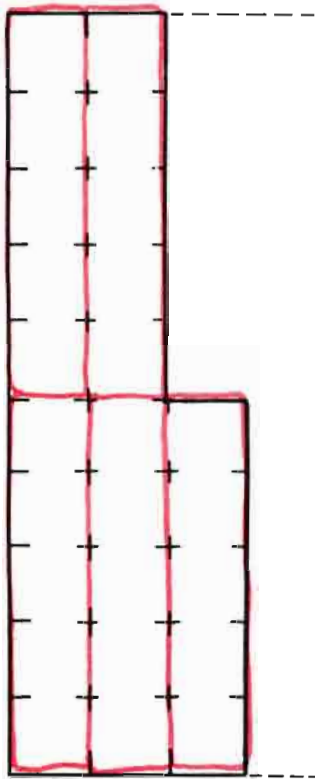
$$\begin{array}{r} 12 \\ \times 4 \\ \hline 48 \end{array} \quad \begin{array}{r} 4 \\ \times 12 \\ \hline 48 \end{array}$$

$$12 \overline{) 48} \quad 4$$

$$4 \overline{) 48} \quad 12$$

FENCING

CERCANDO

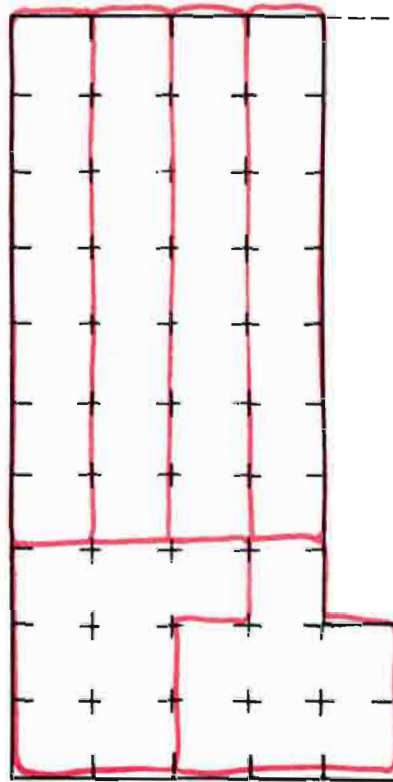


$$\begin{array}{r} 5 \text{ (5's)} \\ \hline 25 \end{array}$$

$$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array} \quad \begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$$

$$5 \overline{) 25}$$

$$5 \overline{) 25}$$

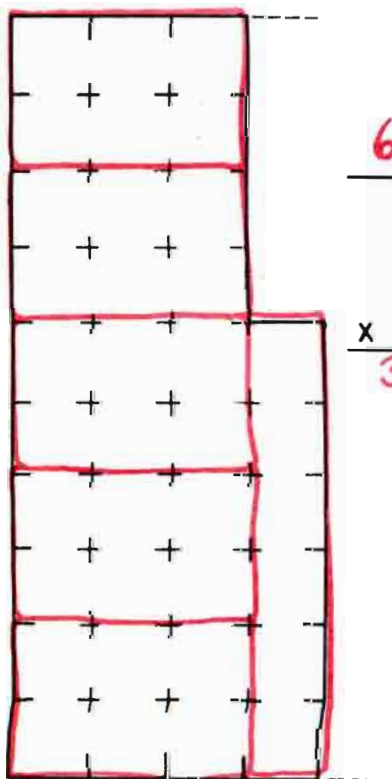


$$\begin{array}{r} 6 \text{ (7's)} \\ \hline 42 \end{array}$$

$$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array} \quad \begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$$

$$7 \overline{) 42}$$

$$6 \overline{) 42}$$

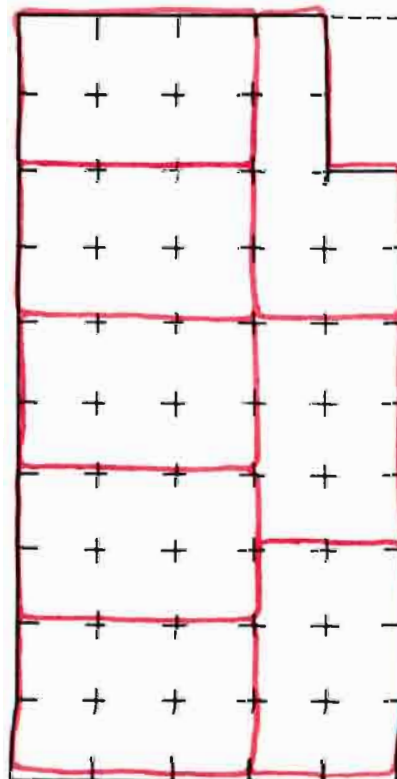


$$\begin{array}{r} 6 \text{ (6's)} \\ \hline 36 \end{array}$$

$$\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array} \quad \begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$$

$$6 \overline{) 36}$$

$$6 \overline{) 36}$$



$$\begin{array}{r} 8 \text{ (6's)} \\ \hline 48 \end{array}$$

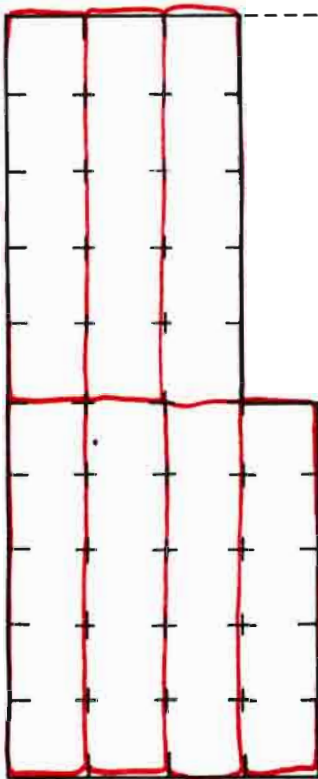
$$\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array} \quad \begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$$

$$6 \overline{) 48}$$

$$8 \overline{) 48}$$

FENCING

CERCANDO



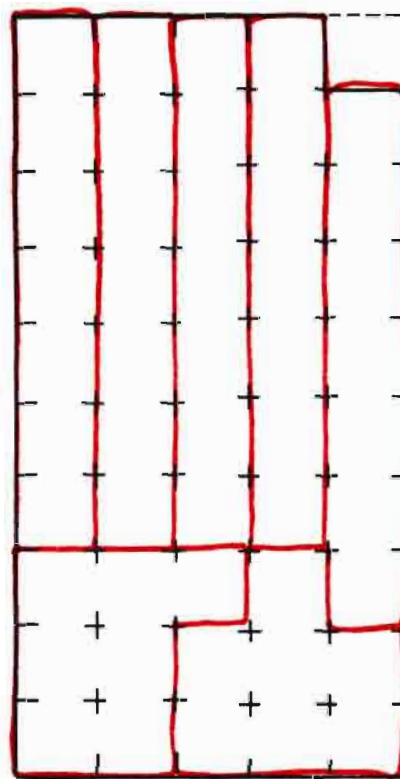
$$\begin{array}{r} 7 \text{ (5's)} \\ \hline \underline{\underline{35}} \end{array}$$

$$\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$$

$$\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$$

$$\begin{array}{r} 7 \\ 5 \overline{) 35} \\ \underline{35} \\ 0 \end{array}$$

$$\begin{array}{r} 5 \\ 7 \overline{) 35} \\ \underline{35} \\ 0 \end{array}$$



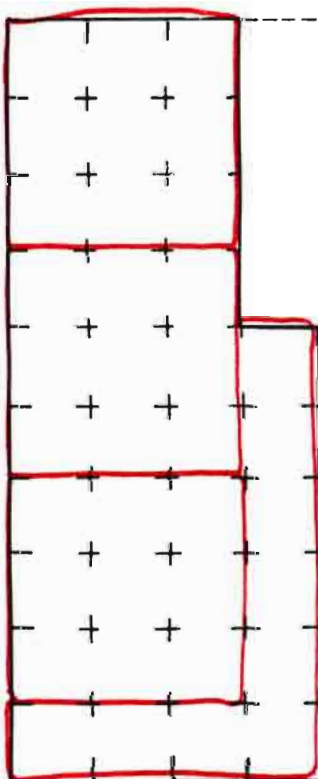
$$\begin{array}{r} 7 \text{ (7's)} \\ \hline \underline{\underline{49}} \end{array}$$

$$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$$

$$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$$

$$\begin{array}{r} 7 \\ 7 \overline{) 49} \\ \underline{49} \\ 0 \end{array}$$

$$\begin{array}{r} 7 \\ 7 \overline{) 49} \\ \underline{49} \\ 0 \end{array}$$



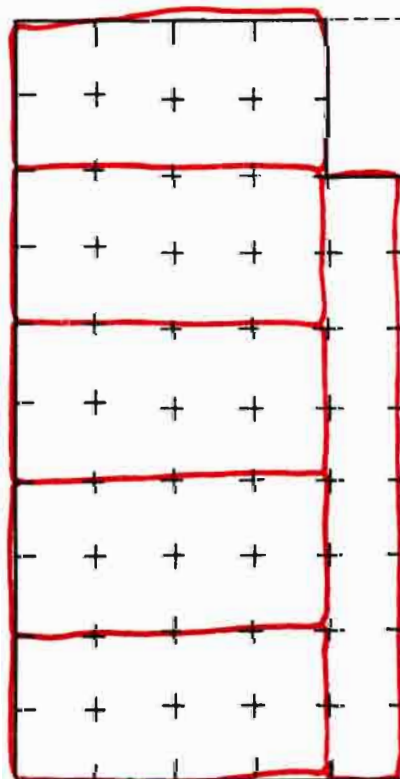
$$\begin{array}{r} 4 \text{ (9's)} \\ \hline \underline{\underline{36}} \end{array}$$

$$\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 4 \\ 9 \overline{) 36} \\ \underline{36} \\ 0 \end{array}$$

$$\begin{array}{r} 9 \\ 4 \overline{) 36} \\ \underline{36} \\ 0 \end{array}$$



$$\begin{array}{r} 6 \text{ (8's)} \\ \hline \underline{\underline{48}} \end{array}$$

$$\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 6 \\ 8 \overline{) 48} \\ \underline{48} \\ 0 \end{array}$$

$$\begin{array}{r} 8 \\ 6 \overline{) 48} \\ \underline{48} \\ 0 \end{array}$$

2, 3, 4, 5, 6, 7, 8, 9

Please make all examples different.

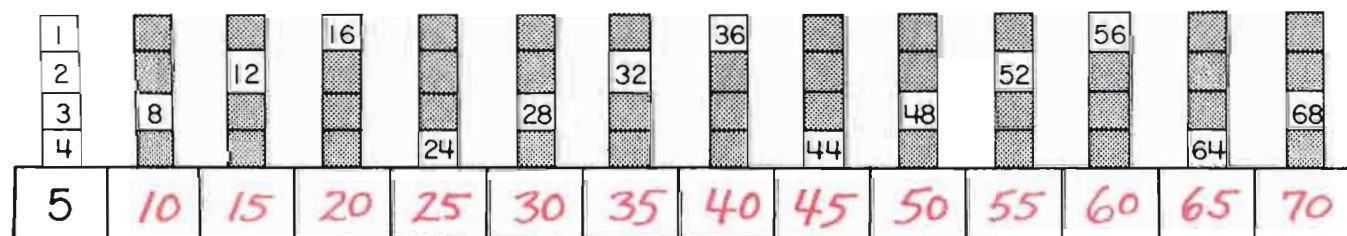
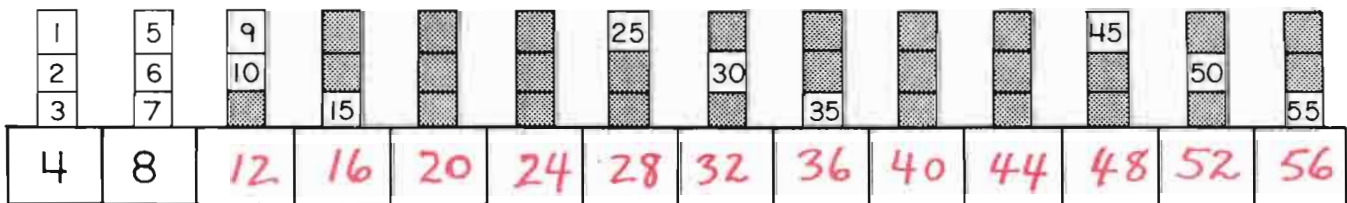
Favor de hacer todos los ejemplos diferentes.

$\begin{array}{r} 2 \\ x 2 \\ \hline 4 \end{array}$	$\begin{array}{r} 2 \\ x 3 \\ \hline 6 \end{array}$	$\begin{array}{r} 3 \\ x 2 \\ \hline 6 \end{array}$	$\begin{array}{r} 4 \\ x 2 \\ \hline 8 \end{array}$	$\begin{array}{r} 2 \\ x 4 \\ \hline 8 \end{array}$	$\begin{array}{r} 3 \\ x 3 \\ \hline 9 \end{array}$	$\begin{array}{r} 5 \\ x 2 \\ \hline 10 \end{array}$
-----------------------------------------------------	-----------------------------------------------------	-----------------------------------------------------	-----------------------------------------------------	-----------------------------------------------------	-----------------------------------------------------	------------------------------------------------------

$\begin{array}{r} 2 \\ x 5 \\ \hline 10 \end{array}$	$\begin{array}{r} 6 \\ x 2 \\ \hline 12 \end{array}$	$\begin{array}{r} 2 \\ x 6 \\ \hline 12 \end{array}$	$\begin{array}{r} 4 \\ x 3 \\ \hline 12 \end{array}$	$\begin{array}{r} 3 \\ x 4 \\ \hline 12 \end{array}$	$\begin{array}{r} 7 \\ x 2 \\ \hline 14 \end{array}$	$\begin{array}{r} 2 \\ x 7 \\ \hline 14 \end{array}$
------------------------------------------------------	------------------------------------------------------	------------------------------------------------------	------------------------------------------------------	------------------------------------------------------	------------------------------------------------------	------------------------------------------------------

$\begin{array}{r} 5 \\ x 3 \\ \hline 15 \end{array}$	$\begin{array}{r} 3 \\ x 5 \\ \hline 15 \end{array}$	$\begin{array}{r} 4 \\ x 4 \\ \hline 16 \end{array}$	$\begin{array}{r} 8 \\ x 2 \\ \hline 16 \end{array}$	$\begin{array}{r} 2 \\ x 8 \\ \hline 16 \end{array}$	$\begin{array}{r} 9 \\ x 2 \\ \hline 18 \end{array}$	$\begin{array}{r} 2 \\ x 9 \\ \hline 18 \end{array}$
------------------------------------------------------	------------------------------------------------------	------------------------------------------------------	------------------------------------------------------	------------------------------------------------------	------------------------------------------------------	------------------------------------------------------

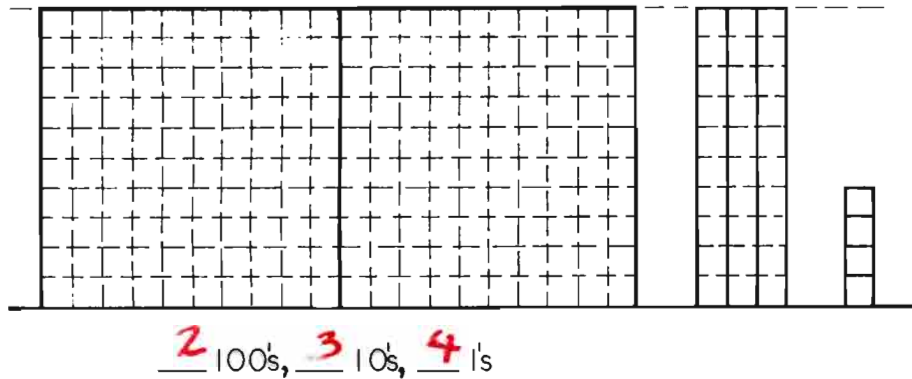
$\begin{array}{r} 6 \\ x 3 \\ \hline 18 \end{array}$	$\begin{array}{r} 3 \\ x 6 \\ \hline 18 \end{array}$	$\begin{array}{r} 6 \\ x 4 \\ \hline 24 \end{array}$	$\begin{array}{r} 4 \\ x 6 \\ \hline 24 \end{array}$	$\begin{array}{r} 8 \\ x 3 \\ \hline 24 \end{array}$	$\begin{array}{r} 3 \\ x 8 \\ \hline 24 \end{array}$	$\begin{array}{r} 5 \\ x 5 \\ \hline 25 \end{array}$
------------------------------------------------------	------------------------------------------------------	------------------------------------------------------	------------------------------------------------------	------------------------------------------------------	------------------------------------------------------	------------------------------------------------------





On Your Own

Usted Solo



$$\begin{array}{r} 234 \\ +106 \\ \hline 340 \end{array}$$

$$\begin{array}{r} 234 \\ +116 \\ \hline 350 \end{array}$$

$$\begin{array}{r} 234 \\ +170 \\ \hline 404 \end{array}$$

$$\begin{array}{r} 234 \\ +176 \\ \hline 410 \end{array}$$

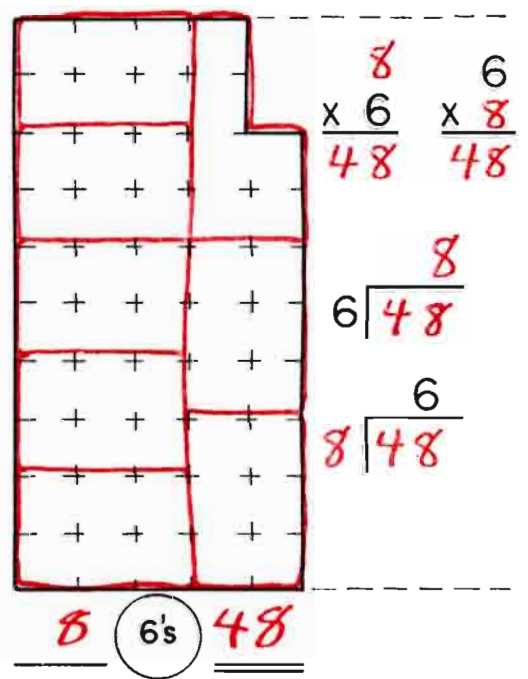
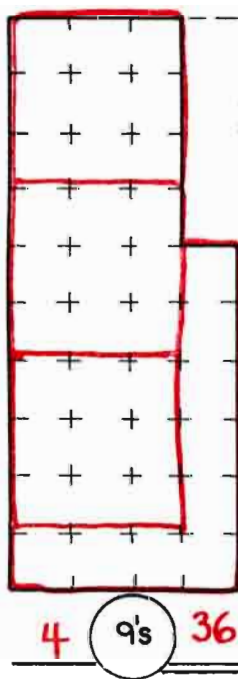
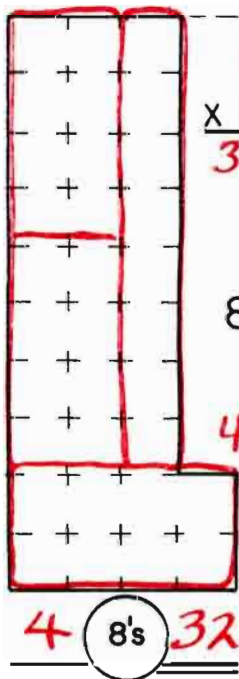
$$\begin{array}{r} 234 \\ +90 \\ \hline 324 \end{array}$$

$$\begin{array}{r} 234 \\ +97 \\ \hline 331 \end{array}$$

$$\begin{array}{r} 235 \\ +65 \\ \hline 300 \end{array}$$

$$\begin{array}{r} 327 \\ +191 \\ \hline 518 \end{array}$$

$$\begin{array}{r} 536 \\ +251 \\ \hline 787 \end{array}$$



From the List

2, 3, 4, 5, 6, 7, 8, 9

De la Lista

$$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$$

$$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$$

How do you feel?

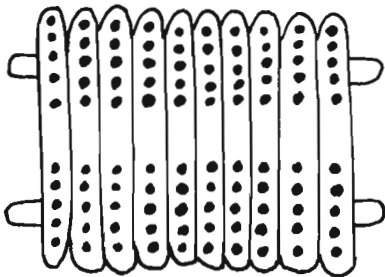


¿Cómo se siente?

Dear Parents,

Your child can now work with addition problems that require regrouping into the hundreds -- the kind we face daily in checkbooks and shopping prices. This requires one more step in the regrouping process, so the pictures are especially valuable reminders that a hundred is 10 tens. The abstract idea of a hundred develops only with lots of exposure to the manipulation of a hundred "things" and then to pictures.

You can help with this at every "real" opportunity that comes along (i.e. dollars, dimes, pennies), and together you and your child can make "hundreds rafts" to go with ten sticks and loose beans. With these you can actually move around the problem  $234 + 176$ , as was discussed in the previous book. Now, in addition to trading in 10 loose



beans for a 10-stick, you're to trade ten sticks for a raft. This may sound a little crazy, but if you try it you'll appreciate the clarity and fun. This can also be done with dollars, dimes, and pennies, but only if your child has a firm belief that

100 pennies make a dollar!

The multiplication and division pictures are now arranged to show tens and ones. Your child has also "fenced-in" the groups, which suggests in the pictures what your child already knows -- that multiplication is repeated addition.

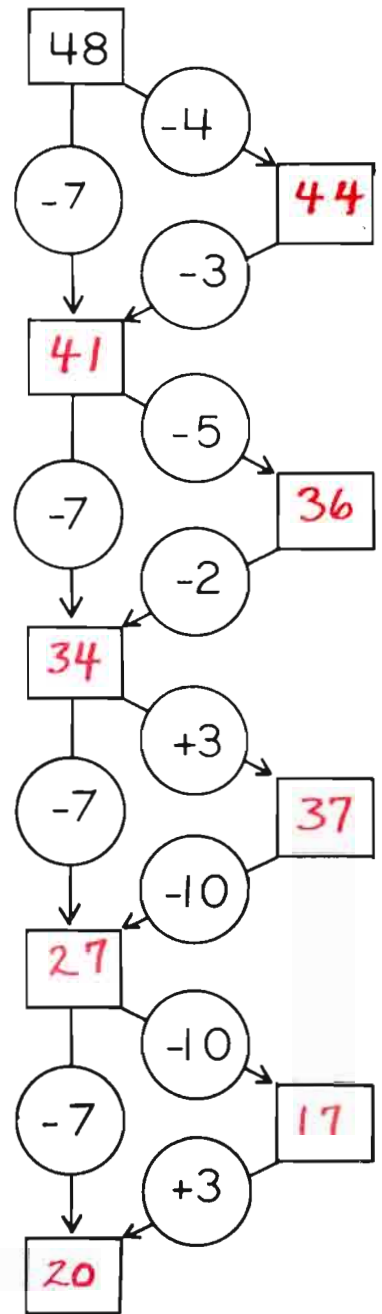
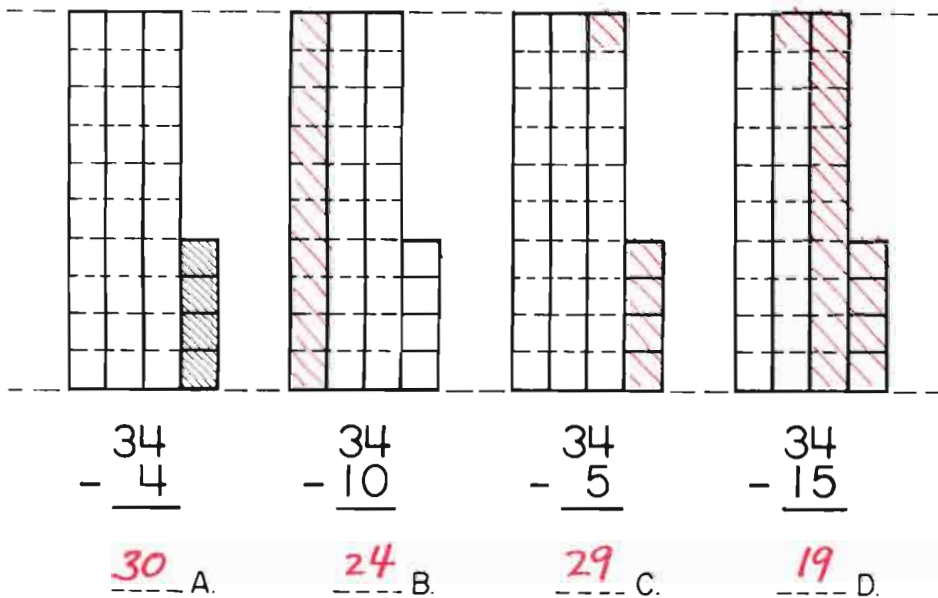
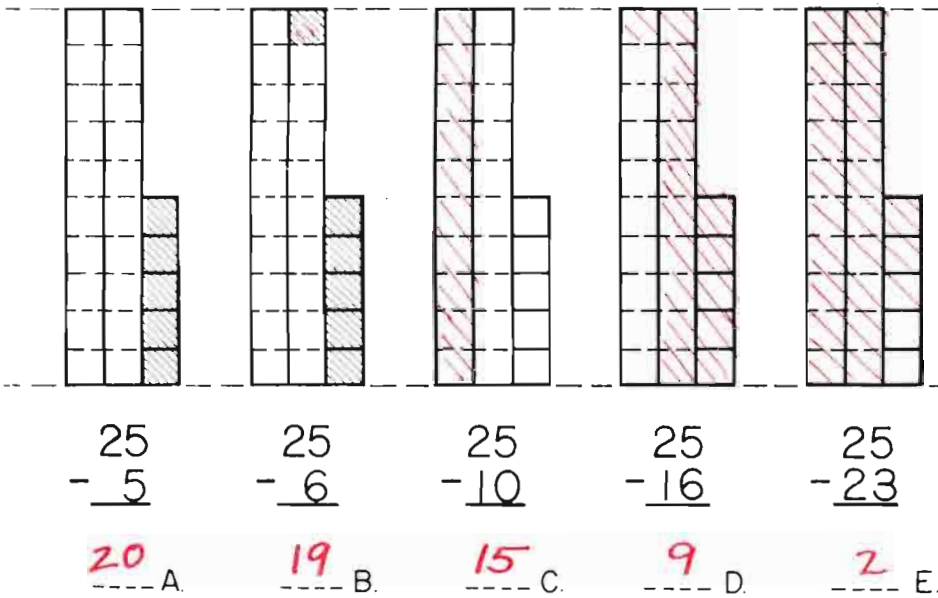
Please take special note of the last activity on the page -- special praise is due! Without any representation on the page, your child can figure out which numbers, when multiplied together make the products given.

Thanks again for your support!

Sincerely,

Please shade in the number of bricks indicated.

Favor de sombrear el número de ladrillos indicado.

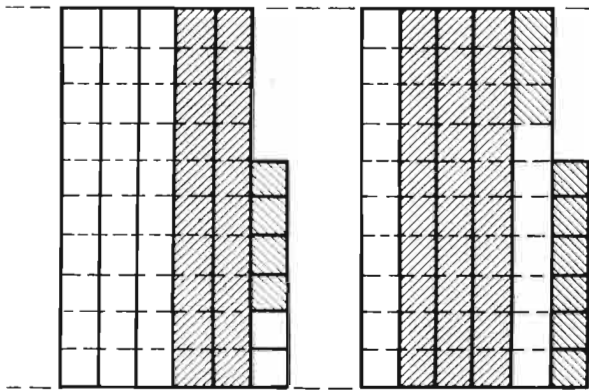


See also: D. & P. pp 143 - 148



A.	B.	C.	D.	E.
20	24	17	19	2
31	30	15	19	8
30	19	29	9	10

56 . . . and less



$$\begin{array}{r} 56 \\ - 6 \\ \hline 50 \end{array} \text{ B.}$$

$$\begin{array}{r} 56 \\ - 7 \\ \hline 49 \end{array} \text{ C.}$$

$$\begin{array}{r} 56 \\ - 26 \\ \hline 30 \end{array} \text{ D.}$$

$$\begin{array}{r} 56 \\ - 27 \\ \hline 29 \end{array} \text{ E.}$$

$$\begin{array}{r} 56 \\ - 24 \\ \hline 32 \end{array}$$

$$\begin{array}{r} 56 \\ - 39 \\ \hline 17 \end{array} \text{ A.}$$

$$\begin{array}{r} 56 \\ - 35 \\ \hline 21 \end{array} \text{ F.}$$

$$\begin{array}{r} 56 \\ - 53 \\ \hline 3 \end{array} \text{ G.}$$

$$\begin{array}{r} 56 \\ - 18 \\ \hline 38 \end{array} \text{ H.}$$

$$\begin{array}{r} 56 \\ - 28 \\ \hline 28 \end{array} \text{ A.}$$

$$\begin{array}{r} 56 \\ - 19 \\ \hline 37 \end{array} \text{ B.}$$

$$\begin{array}{r} 56 \\ - 29 \\ \hline 27 \end{array} \text{ C.}$$

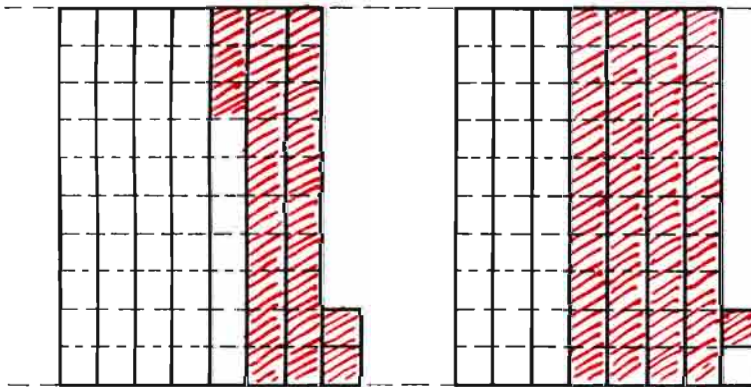
$$\begin{array}{r} 56 \\ - 50 \\ \hline 6 \end{array} \text{ D.}$$

$$\begin{array}{r} 56 \\ - 47 \\ \hline 9 \end{array} \text{ E.}$$

See also: D.I. pp. 89, 92 - 100

			0
1	2	3	4
5	6	7	8
9	10		12
13			16
	18		20
			24
			28
	30		32
			36
			40
41			44
		47	48

72 . . . y menos



$$\begin{array}{r} 72 \\ - 5 \\ \hline 67 \end{array} \text{ F.}$$

$$\begin{array}{r} 72 \\ - 35 \\ \hline 37 \end{array} \text{ G.}$$

$$\begin{array}{r} 72 \\ - 25 \\ \hline 47 \end{array} \text{ A.}$$

$$\begin{array}{r} 72 \\ - 41 \\ \hline 31 \end{array} \text{ B.}$$

$$\begin{array}{r} 72 \\ - 65 \\ \hline 7 \end{array} \text{ H.}$$

$$\begin{array}{r} 72 \\ - 30 \\ \hline 42 \end{array} \text{ C.}$$

$$\begin{array}{r} 72 \\ - 12 \\ \hline 60 \end{array} \text{ D.}$$

$$\begin{array}{r} 72 \\ - 19 \\ \hline 53 \end{array} \text{ E.}$$

$$\begin{array}{r} 72 \\ - 28 \\ \hline 44 \end{array} \text{ F.}$$

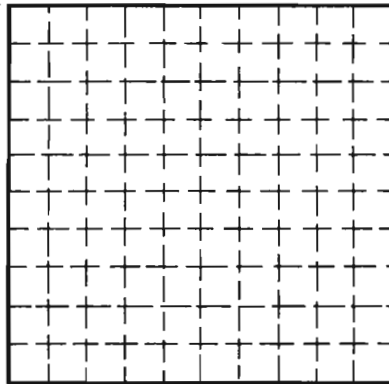
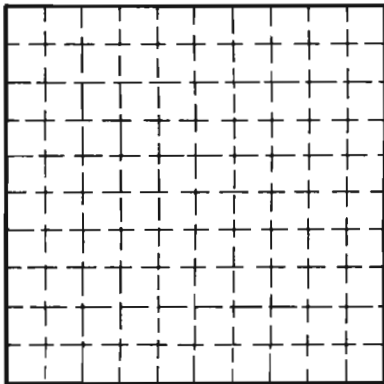
$$\begin{array}{r} 72 \\ - 37 \\ \hline 35 \end{array} \text{ G.}$$

$$\begin{array}{r} 72 \\ - 63 \\ \hline 9 \end{array} \text{ H.}$$

A.	B.	C.	D.
17	37	42	6
47	50	27	30
28	31	49	60

E.	F.	G.	H.
53	21	35	7
29	44	37	38
9	67	3	9

100....



							0
1	2	3	4	5	6		7
8	9						14
		17					21
							28
			32				35

$$\begin{array}{r} 100 \\ - 40 \\ \hline 60 \end{array} \text{ A.}$$

$$\begin{array}{r} 100 \\ - 65 \\ \hline 35 \end{array} \text{ B.}$$

$$\begin{array}{r} 100 \\ - 4 \\ \hline 96 \end{array} \text{ C.}$$

$$\begin{array}{r} 100 \\ - 10 \\ \hline 90 \end{array} \text{ D.}$$

$$\begin{array}{r} 100 \\ - 14 \\ \hline 86 \end{array} \text{ A.}$$

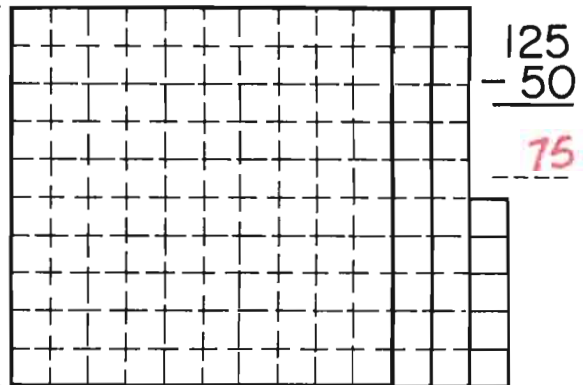
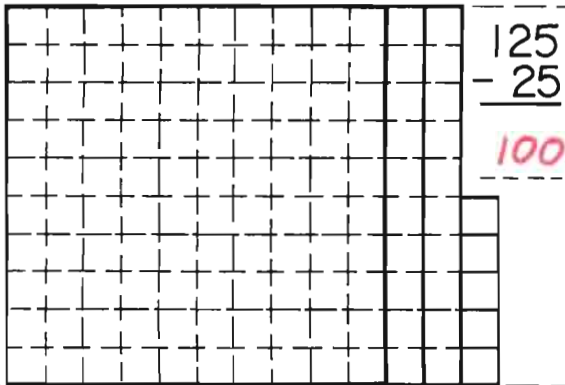
$$\begin{array}{r} 100 \\ - 27 \\ \hline 73 \end{array} \text{ B.}$$

$$\begin{array}{r} 100 \\ - 51 \\ \hline 49 \end{array} \text{ C.}$$

$$\begin{array}{r} 100 \\ - 83 \\ \hline 17 \end{array} \text{ D.}$$

A.	B.	C.	D.
60	65	71	90
74	73	96	17
86	35	49	52

125....



$$\begin{array}{r} 125 \\ - 10 \\ \hline 115 \end{array}$$

$$\begin{array}{r} 125 \\ - 30 \\ \hline 95 \end{array}$$

$$\begin{array}{r} 125 \\ - 40 \\ \hline 85 \end{array}$$

$$\begin{array}{r} 125 \\ - 25 \\ \hline 100 \end{array}$$

$$\begin{array}{r} 125 \\ - 26 \\ \hline 99 \end{array}$$

$$\begin{array}{r} 125 \\ - 27 \\ \hline 98 \end{array}$$

$$\begin{array}{r} 125 \\ - 29 \\ \hline 96 \end{array}$$

$$\begin{array}{r} 125 \\ - 20 \\ \hline 105 \end{array}$$

$$\begin{array}{r} 125 \\ - 19 \\ \hline 106 \end{array}$$

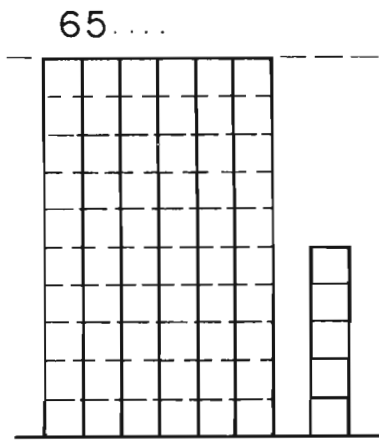
$$\begin{array}{r} 125 \\ - 18 \\ \hline 107 \end{array}$$

$$\begin{array}{r} 125 \\ - 28 \\ \hline 97 \end{array}$$

$$\begin{array}{r} 125 \\ - 38 \\ \hline 87 \end{array}$$

$$\begin{array}{r} 125 \\ - 48 \\ \hline 77 \end{array}$$

$$\begin{array}{r} 125 \\ - 58 \\ \hline 67 \end{array}$$



6 10's, 5 1's

$$\begin{array}{r} 65 \\ + 20 \\ \hline \end{array}$$

85 E.

$$\begin{array}{r} 65 \\ - 20 \\ \hline \end{array}$$

45 F.

$$\begin{array}{r} 65 \\ + 25 \\ \hline \end{array}$$

90 G.

$$\begin{array}{r} 65 \\ - 25 \\ \hline \end{array}$$

40 H.

$$\begin{array}{r} 65 \\ - 27 \\ \hline \end{array}$$

38 I.

$$\begin{array}{r} 65 \\ + 5 \\ \hline \end{array}$$

70 A.

$$\begin{array}{r} 65 \\ - 5 \\ \hline \end{array}$$

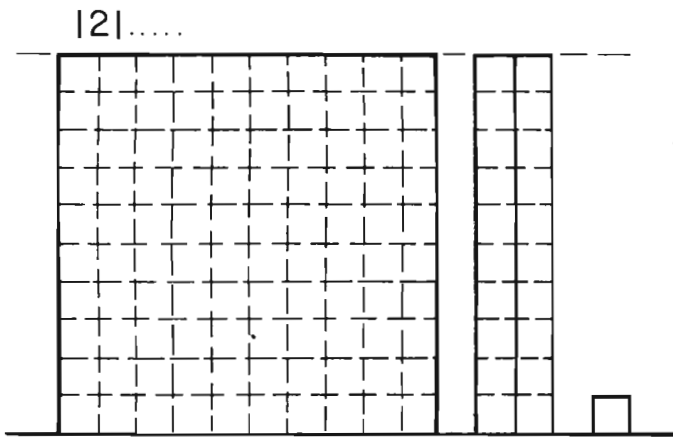
60 B.

$$\begin{array}{r} 65 \\ + 6 \\ \hline \end{array}$$

71 C.

$$\begin{array}{r} 65 \\ - 6 \\ \hline \end{array}$$

59 D.



1 100's  
2 10's  
1 1's

$$\begin{array}{r} 121 \\ - 1 \\ \hline \end{array}$$

120 A.

$$\begin{array}{r} 121 \\ - 20 \\ \hline \end{array}$$

101 B.

$$\begin{array}{r} 121 \\ - 100 \\ \hline \end{array}$$

21 C.

$$\begin{array}{r} 121 \\ + 9 \\ \hline \end{array}$$

130 D.

$$\begin{array}{r} 121 \\ + 19 \\ \hline \end{array}$$

140 E.

$$\begin{array}{r} 121 \\ - 5 \\ \hline \end{array}$$

116 F.

$$\begin{array}{r} 121 \\ - 15 \\ \hline \end{array}$$

106 G.

$$\begin{array}{r} 121 \\ - 25 \\ \hline \end{array}$$

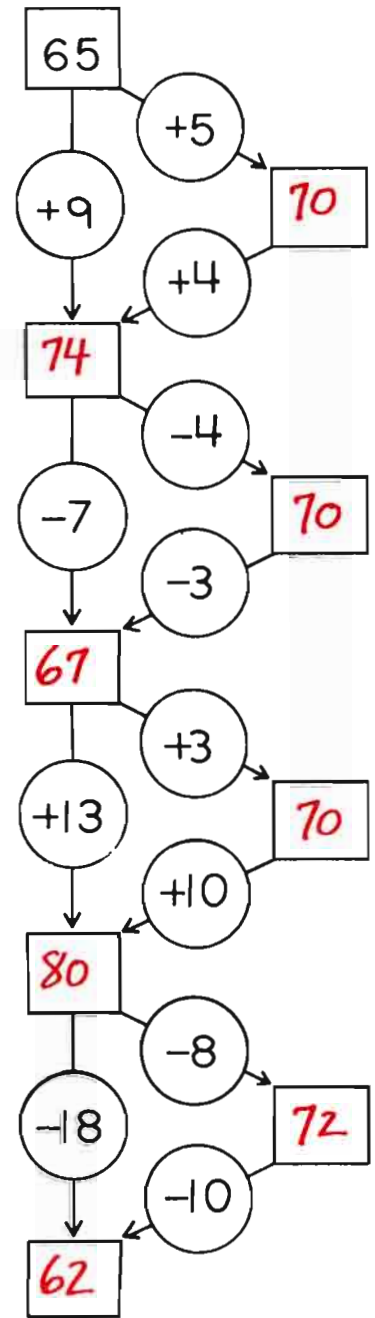
96 H.

$$\begin{array}{r} 121 \\ + 171 \\ \hline \end{array}$$

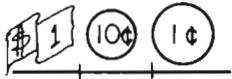
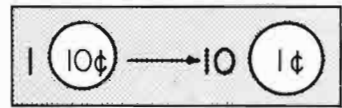
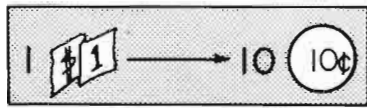
292 I.

$$\begin{array}{r} 121 \\ + 79 \\ \hline \end{array}$$

200 J.



A.	B.	C.	D.	E.
70	101	71	130	96
120	100	51	59	140
90	60	21	47	85
F.	G.	H.	I.	J.
83	90	96	195	179
45	106	47	38	200
116	94	40	292	207



$$\begin{array}{r} 200 \\ - 50 \\ \hline 150 \end{array}$$

A

$$\begin{array}{r} 258 \\ - 45 \\ \hline 213 \end{array}$$

B

$$\begin{array}{r} 225 \\ - 50 \\ \hline 175 \end{array}$$

C

$$\begin{array}{r} 375 \\ - 164 \\ \hline 211 \end{array}$$

D

$$\begin{array}{r} 300 \\ - 150 \\ \hline 150 \end{array}$$

E

$$\begin{array}{r} 325 \\ - 106 \\ \hline 219 \end{array}$$

F

$$\begin{array}{r} 215 \\ - 85 \\ \hline 130 \end{array}$$

A

$$\begin{array}{r} 125 \\ - 62 \\ \hline 63 \end{array}$$

B

$$\begin{array}{r} 550 \\ - 328 \\ \hline 222 \end{array}$$

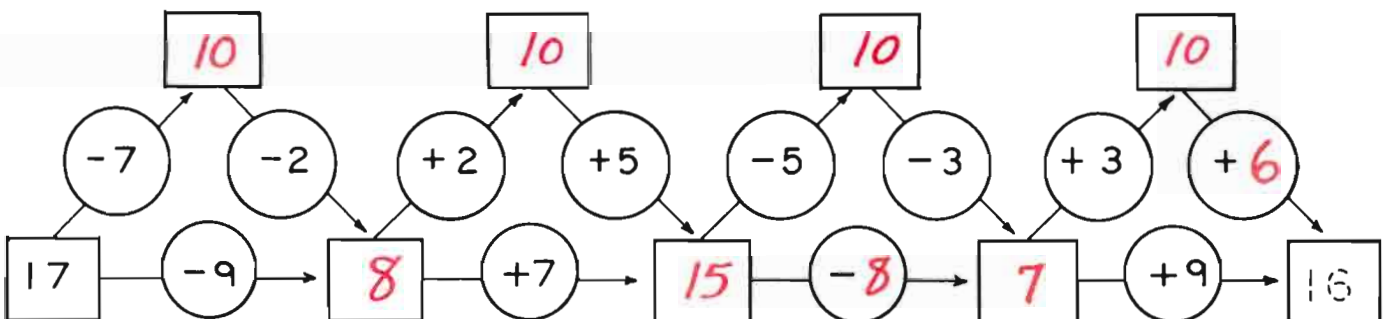
C

See also: D.I. pp. 105-107

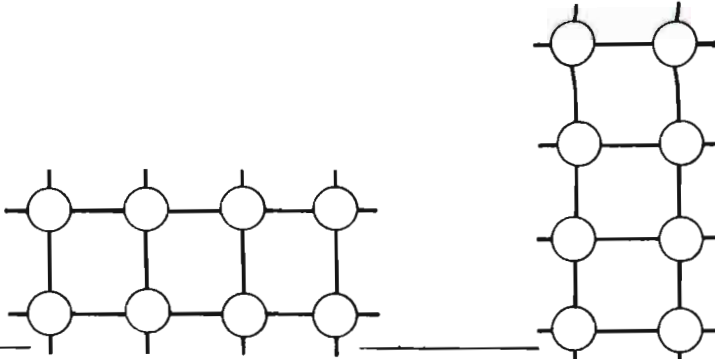
$$\begin{array}{r} 200 \\ - 70 \\ \hline 130 \end{array} \text{ D. } \begin{array}{r} 200 \\ - 75 \\ \hline 125 \end{array} \text{ E. } \begin{array}{r} 200 \\ - 180 \\ \hline 20 \end{array} \text{ F. } \begin{array}{r} 200 \\ - 185 \\ \hline 15 \end{array} \text{ A. } \begin{array}{r} 200 \\ - 190 \\ \hline 10 \end{array} \text{ B.}$$

A.	150	15	130
B.	10	213	63
C.	175	222	8
D.	130	6	211
E.	7	150	125
F.	20	12	219

$$16 - 8 = 8 \text{ C. } \quad 15 - 9 = 6 \text{ D. } \quad 14 - 7 = 7 \text{ E.}$$



What can you see?

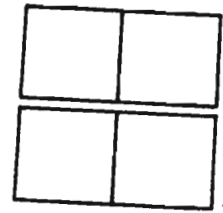


$$\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$$
 A.
 
$$\begin{array}{r} 2 \\ \times 4 \\ \hline 8 \end{array}$$

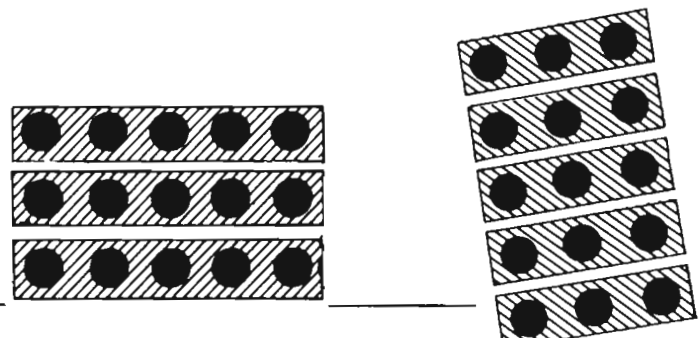
$$2 \overline{) 8}$$

$$4 \overline{) 8}$$

¿Qué puede usted ver?



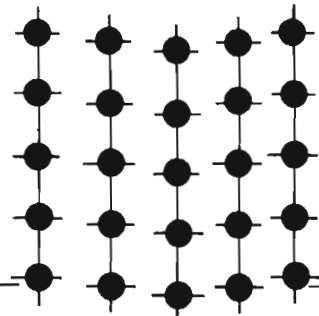
$$\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$$
 B.
 
$$2 \overline{) 4}$$



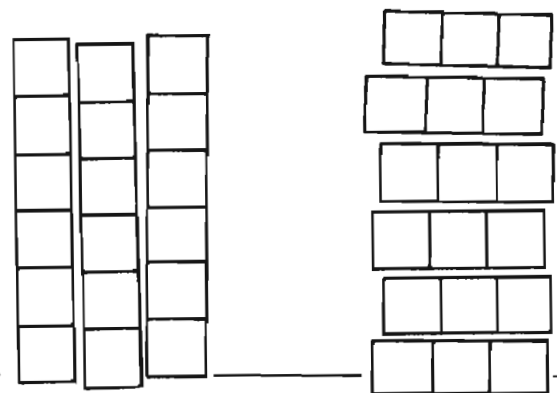
$$\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$$
 C.
 
$$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$$

$$3 \overline{) 15}$$

$$5 \overline{) 15}$$



$$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$$
 D.
 
$$5 \overline{) 25}$$



$$\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$$
 E.
 
$$\begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array}$$

$$3 \overline{) 18}$$

$$6 \overline{) 18}$$

$$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$$
 A.
 
$$2 \overline{) 10}$$
 B.

$$\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$$
 C.
 
$$3 \overline{) 12}$$
 D.

A.	B.	C.	D.	E.
9	4	10	4	18
8	5	15	25	17



What can you see?

$$\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$$
 A.
 
$$\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$$

$$5 \overline{) 20}$$

$$4 \overline{) 20}$$

¿Qué puede usted ver?

$$\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$$
 B.
 
$$6 \overline{) 36}$$

$$\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$$
 C.
 
$$\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$$

$$2 \overline{) 12}$$

$$6 \overline{) 12}$$

$$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$$
 D.
 
$$7 \overline{) 49}$$

$$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$$
 E.
 
$$\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$$

$$6 \overline{) 24}$$

$$4 \overline{) 24}$$

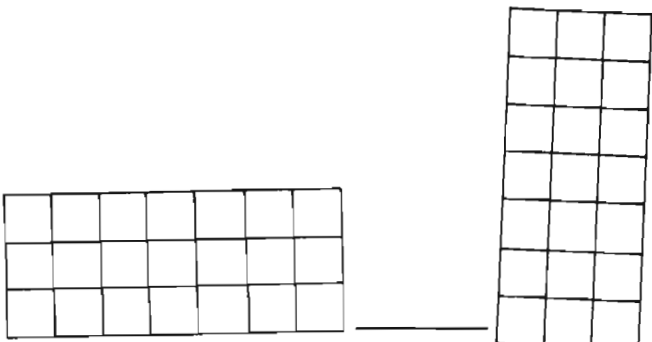
$$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$$
 A.
 
$$3 \overline{) 15}$$
 B.

$$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$$
 C.
 
$$6 \overline{) 18}$$
 D.

A.	B.	C.	D.	E.
20	5	25	49	24
12	36	12	3	19

What can you see?

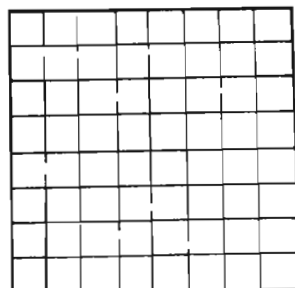
¿Qué puede usted ver?



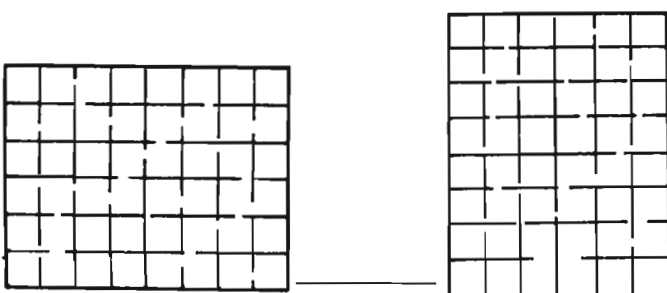
$$\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$$
 A.
 
$$\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$$

$$7 \overline{) 21}$$

$$3 \overline{) 21}$$



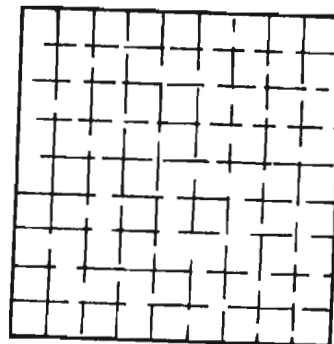
$$\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$$
 B.
 
$$8 \overline{) 64}$$



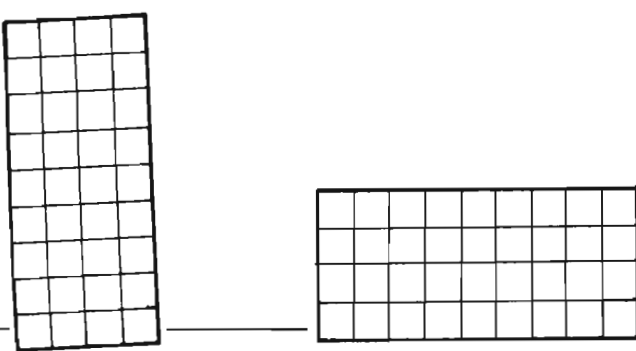
$$\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$$
 C.
 
$$\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$$

$$8 \overline{) 48}$$

$$6 \overline{) 48}$$



$$\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$$
 D.
 
$$9 \overline{) 81}$$



$$\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$$
 E.
 
$$\begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array}$$

$$9 \overline{) 36}$$

$$4 \overline{) 36}$$

$$\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$$
 A.
 
$$2 \overline{) 12}$$
 B.

$$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$$
 C.
 
$$3 \overline{) 18}$$
 D.

A.	B.	C.	D.	E.
20	6	48	81	16
21	64	24	6	36

What can you see?

¿Qué puede usted ver?

$$\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$$
 A.
 
$$\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$$

$$8 \overline{)32}$$

$$4 \overline{)32}$$

$$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$$
 B.
 
$$5 \overline{)25}$$

$$\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$$
 C.
 
$$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$$

$$6 \overline{)30}$$

$$5 \overline{)30}$$

$$\begin{array}{r} 10 \\ \times 10 \\ \hline 100 \end{array}$$
 D.
 
$$10 \overline{)100}$$

$$\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$$
 E.
 
$$\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$$

$$9 \overline{)63}$$

$$7 \overline{)63}$$

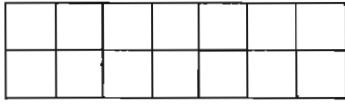
$$\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$$
 A.
 
$$4 \overline{)20}$$
 B.

$$\begin{array}{r} 9 \\ \times 2 \\ \hline 18 \end{array}$$
 C.
 
$$3 \overline{)21}$$
 D.

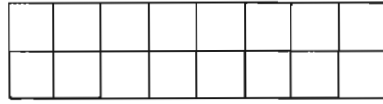
A.	B.	C.	D.	E.
15	25	18	7	63
32	5	30	100	75

What can you see?

¿Qué puede usted ver?



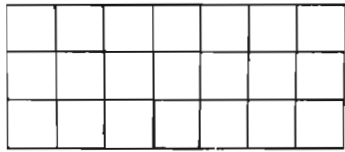
$$\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array} \quad 2 \overline{) 14}$$



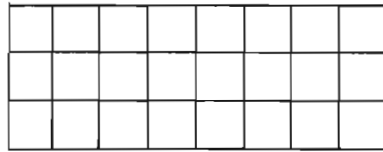
$$\begin{array}{r} 8 \\ \times 2 \\ \hline 16 \end{array} \quad 2 \overline{) 16}$$



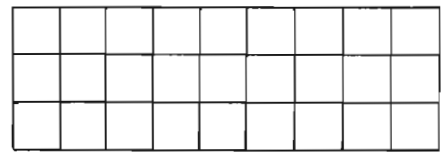
$$\begin{array}{r} 9 \\ \times 2 \\ \hline 18 \end{array} \quad 2 \overline{) 18}$$



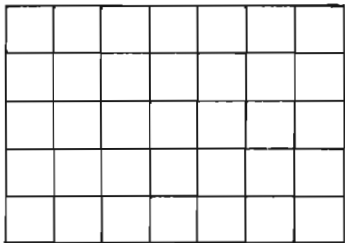
$$\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array} \quad 3 \overline{) 21}$$



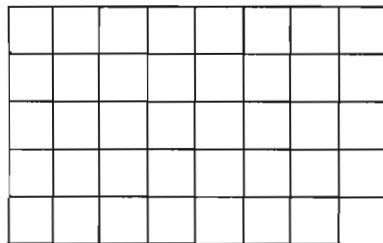
$$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array} \quad 3 \overline{) 24}$$



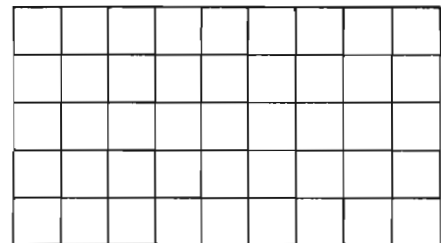
$$\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array} \quad 3 \overline{) 27}$$



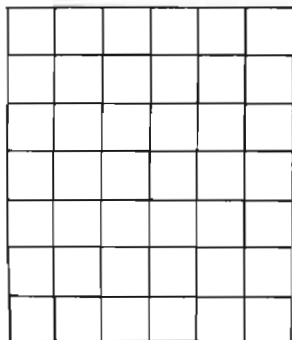
$$\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array} \quad 5 \overline{) 35}$$



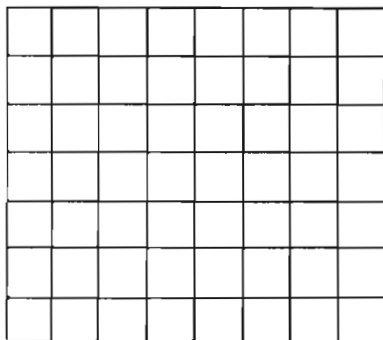
$$\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array} \quad 5 \overline{) 40}$$



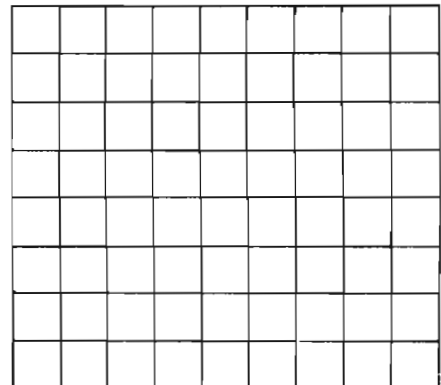
$$\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array} \quad 5 \overline{) 45}$$



$$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array} \quad 7 \overline{) 42}$$



$$\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array} \quad 7 \overline{) 56}$$



$$\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array} \quad 8 \overline{) 72}$$

2, 3, 4, 5, 6, 7, 8, 9

Please make all examples different.

Favor de hacer todos los ejemplos diferentes.

$$\begin{array}{r} 8 \\ \times 2 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$$

$$\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$$

$$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$$

$$\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$$

$$\begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$$

See also: D. & P. pp. 32, 42, 111 - 123, 149 - 153

$$\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array}$$

$$\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$$

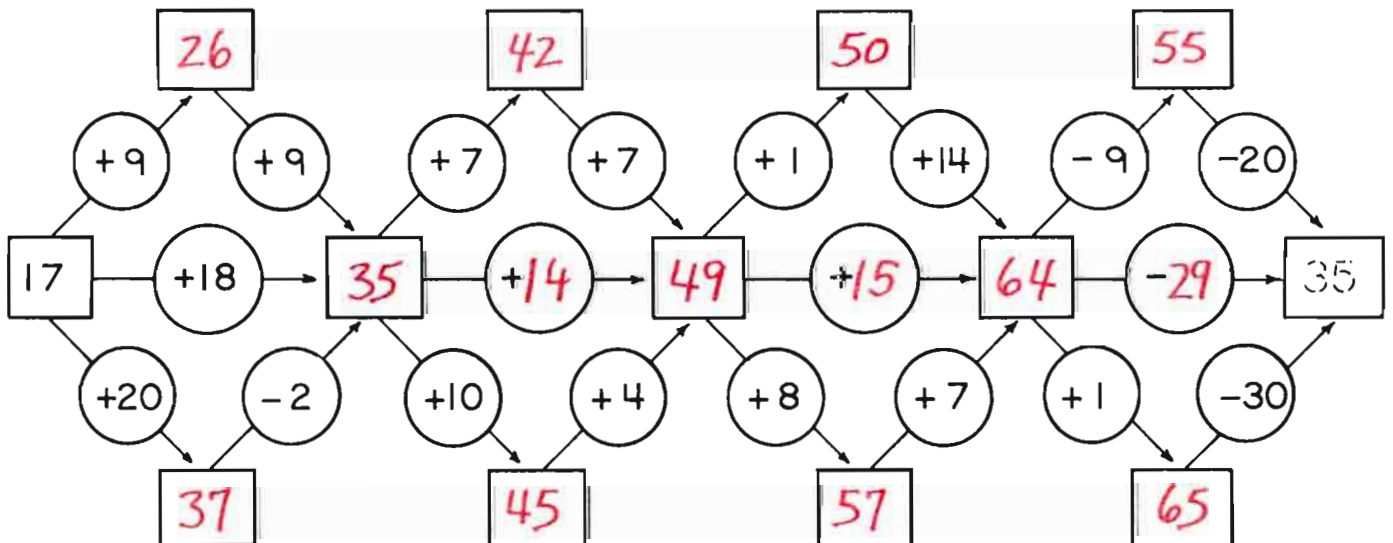
$$\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$$

$$\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$$

$$\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$$



2, 3, 4, 5, 6, 7, 8, 9

Please make all examples different.

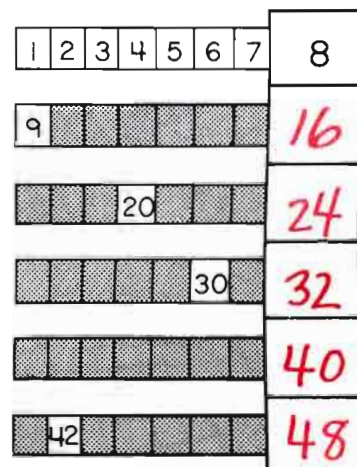
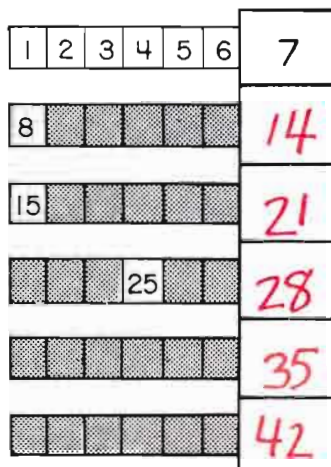
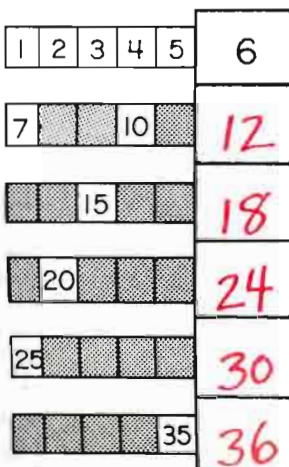
Favor de hacer todos los ejemplos diferentes.

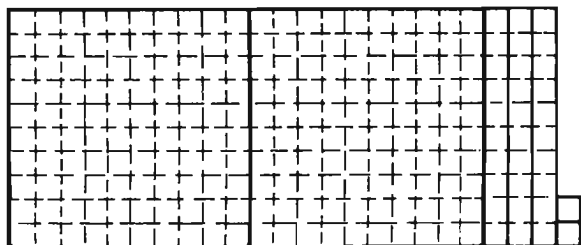
$\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$	$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$	$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$	$\begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array}$	$\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$	$\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$	$\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$
-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------

$\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$	$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$	$\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$	$\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$	$\begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array}$	$\begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array}$	$\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$
-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------

$\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$	$\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array}$	$\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$	$\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$	$\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$	$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$	$\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$
-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------

$\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$	$\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$	$\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$	$\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$	$\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$	$\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$	$\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$
-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------





2 100's, 3 10's, 2 1's

$$\begin{array}{r} 232 \\ - 130 \\ \hline 102 \end{array}$$

$$\begin{array}{r} 232 \\ - 90 \\ \hline 142 \end{array}$$

$$\begin{array}{r} 232 \\ - 132 \\ \hline 100 \end{array}$$

$$\begin{array}{r} 232 \\ - 140 \\ \hline 92 \end{array}$$

$$\begin{array}{r} 232 \\ - 18 \\ \hline 214 \end{array}$$

$$\begin{array}{r} 232 \\ - 38 \\ \hline 194 \end{array}$$

$$\begin{array}{r} 238 \\ - 29 \\ \hline 209 \end{array}$$

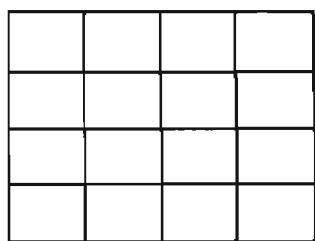
$$\begin{array}{r} 240 \\ - 90 \\ \hline 150 \end{array}$$

$$\begin{array}{r} 200 \\ - 50 \\ \hline 150 \end{array}$$

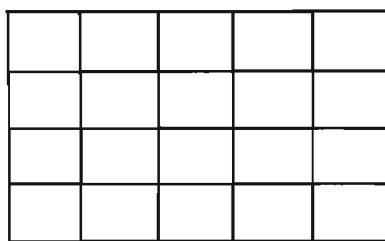
$$\begin{array}{r} 200 \\ - 75 \\ \hline 125 \end{array}$$

$$\begin{array}{r} 234 \\ - 37 \\ \hline 197 \end{array}$$

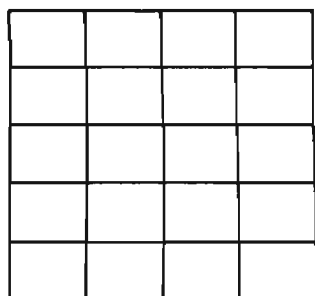
$$\begin{array}{r} 332 \\ - 155 \\ \hline 177 \end{array}$$



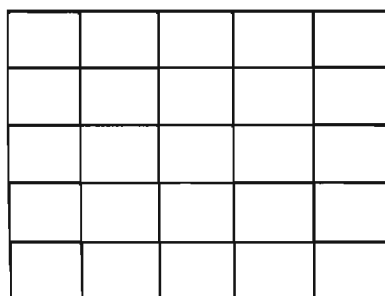
$$\begin{array}{r} 4 \\ 4 \overline{) 16} \end{array}$$



$$\begin{array}{r} 5 \\ 4 \overline{) 20} \end{array}$$



$$\begin{array}{r} 4 \\ 5 \overline{) 20} \end{array}$$



$$\begin{array}{r} 5 \\ 5 \overline{) 25} \end{array}$$

2, 3, 4, 5, 6, 7, 8, 9

$$\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$$

$$\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$$

$$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$$

$$\begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$$

How do you feel?  
¿Cómo se siente?



Dear Parents,

Now you can see that your child has worked on subtraction problems with regrouping into the hundreds. As with the addition problems on test three, we suggest that you ask your child to show you how the operation really "works" -- with beansticks and rafts, or on graph paper where it is easy to draw enclosed hundreds.

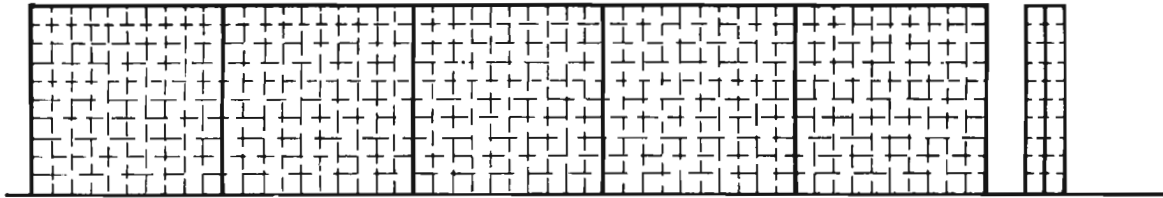
And we once again encourage you to capitalize on any real-life situations where this type of subtraction (or addition) is used, by discussing it and building upon it if the time is right. After all, those situations are the point of learning to compute all these things! So after shopping with your child and the bill was \$4.20, you could say such things as, "If we had not bought that \$ .70 package of popsicles, it would have only been \$3.50. Right? And what if we had bought that extra box of cookies for \$.85? Then what would the total have been?"

Multiplication and division activities may be easier and more fun for you to practice at home. As you see on the back of the page, your child can do many different sorts of exercises with multiplication and division -- and together you can probably think up more. Oral practice can be lots of fun -- "I'm thinking of two numbers, both less than 6, that when multiplied together make 20. What are they? Okay, now two other numbers both less than 12, that when multiplied together also make 20." This problem-solving approach can be much more interesting and rewarding than rote drill. The use of beans or graphing should always be allowed when your child really feels the need for them.

Have fun, and again, please keep in mind that a positive attitude toward math is what we're hoping for.

Sincerely,

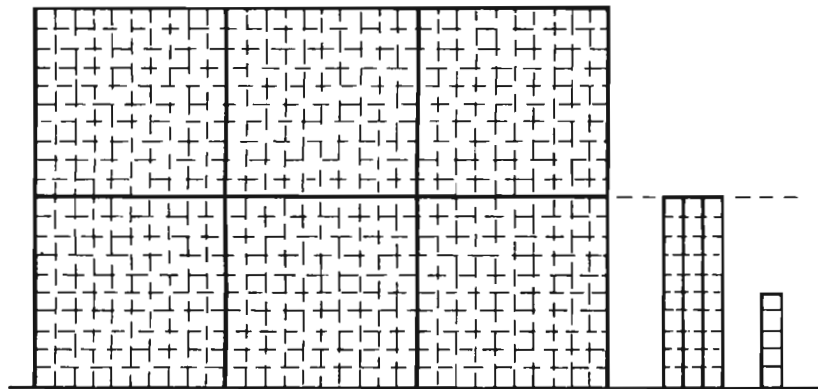




$$\begin{array}{r} 520 \\ + 20 \\ \hline 540 \end{array} \text{A.} \quad \begin{array}{r} 520 \\ - 20 \\ \hline 500 \end{array} \text{B.} \quad \begin{array}{r} 520 \\ - 21 \\ \hline 499 \end{array} \text{C.} \quad \begin{array}{r} 520 \\ - 100 \\ \hline 420 \end{array} \text{D.} \quad \begin{array}{r} 520 \\ - 120 \\ \hline 400 \end{array} \text{E.} \quad \begin{array}{r} 520 \\ + 75 \\ \hline 595 \end{array} \text{F.}$$

$$\begin{array}{r} 520 \\ - 30 \\ \hline 490 \end{array} \text{G.} \quad \begin{array}{r} 520 \\ - 35 \\ \hline 485 \end{array} \text{H.} \quad \begin{array}{r} 520 \\ - 40 \\ \hline 480 \end{array} \text{A.} \quad \begin{array}{r} 520 \\ - 45 \\ \hline 475 \end{array} \text{B.} \quad \begin{array}{r} 520 \\ - 50 \\ \hline 470 \end{array} \text{C.} \quad \begin{array}{r} 520 \\ + 80 \\ \hline 600 \end{array} \text{D.}$$

See also: D.I. pp. 76-86



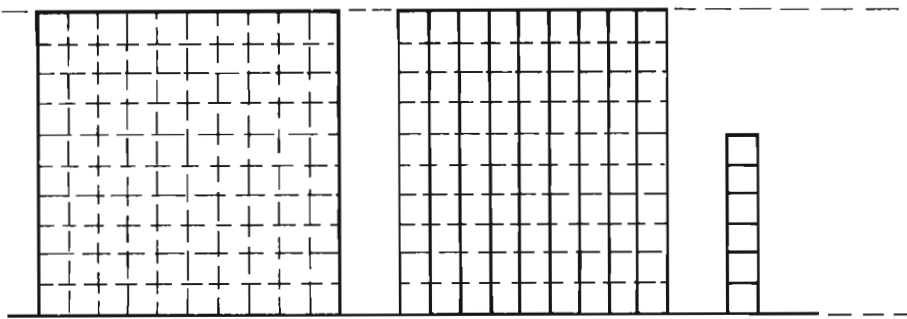
6 100's, 3 10's, 5 1's

$$\begin{array}{r} 635 \\ - 35 \\ \hline 600 \end{array} \text{E.} \quad \begin{array}{r} 635 \\ - 38 \\ \hline 597 \end{array} \text{F.} \quad \begin{array}{r} 635 \\ - 48 \\ \hline 587 \end{array} \text{G.} \quad \begin{array}{r} 635 \\ + 64 \\ \hline 699 \end{array} \text{H.} \quad \begin{array}{r} 635 \\ + 74 \\ \hline 709 \end{array} \text{A.}$$

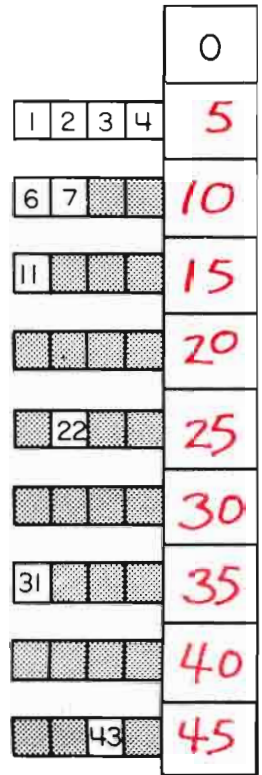
$$\begin{array}{r} 635 \\ + 75 \\ \hline 710 \end{array} \text{B.} \quad \begin{array}{r} 635 \\ + 178 \\ \hline 813 \end{array} \text{C.} \quad \begin{array}{r} 635 \\ + 236 \\ \hline 871 \end{array} \text{D.} \quad \begin{array}{r} 635 \\ - 40 \\ \hline 595 \end{array} \text{E.} \quad \begin{array}{r} 635 \\ - 245 \\ \hline 390 \end{array} \text{F.}$$

A.	B.	C.	D.
540	710	499	600
709	500	470	871
480	475	813	420

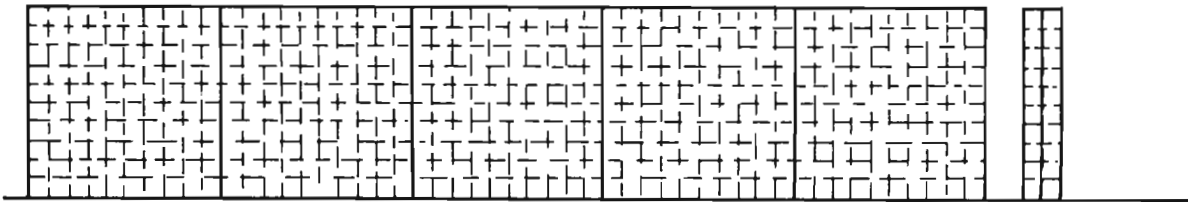
E.	F.	G.	H.
600	595	601	699
400	390	587	485
595	597	490	725



1 100's, 9 10's, 6 1's

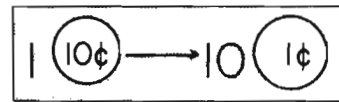


$\begin{array}{r} 196 \\ + 4 \\ \hline 200 \end{array}$	$\begin{array}{r} 196 \\ + 8 \\ \hline 204 \end{array} \text{ A.}$	$\begin{array}{r} 196 \\ + 18 \\ \hline 214 \end{array} \text{ B.}$	$\begin{array}{r} 196 \\ + 47 \\ \hline 243 \end{array} \text{ C.}$	$\begin{array}{r} 196 \\ + 84 \\ \hline 280 \end{array} \text{ D.}$
$\begin{array}{r} 196 \\ - 56 \\ \hline 140 \end{array} \text{ E.}$	$\begin{array}{r} 196 \\ - 59 \\ \hline 137 \end{array} \text{ F.}$	$\begin{array}{r} 196 \\ - 68 \\ \hline 128 \end{array} \text{ G.}$	$\begin{array}{r} 196 \\ - 87 \\ \hline 109 \end{array} \text{ A.}$	$\begin{array}{r} 196 \\ - 128 \\ \hline 68 \end{array} \text{ B.}$



$\begin{array}{r} 520 \\ + 30 \\ \hline 550 \end{array} \text{ C.}$	$\begin{array}{r} 520 \\ - 20 \\ \hline 500 \end{array} \text{ D.}$	$\begin{array}{r} 520 \\ + 75 \\ \hline 595 \end{array} \text{ E.}$	$\begin{array}{r} 520 \\ + 80 \\ \hline 600 \end{array} \text{ F.}$	$\begin{array}{r} 520 \\ - 100 \\ \hline 420 \end{array} \text{ G.}$	$\begin{array}{r} 520 \\ - 120 \\ \hline 400 \end{array} \text{ A.}$
$\begin{array}{r} 520 \\ - 10 \\ \hline 510 \end{array} \text{ B.}$	$\begin{array}{r} 520 \\ - 9 \\ \hline 511 \end{array} \text{ C.}$	$\begin{array}{r} 520 \\ - 19 \\ \hline 501 \end{array} \text{ D.}$	$\begin{array}{r} 520 \\ + 200 \\ \hline 720 \end{array} \text{ E.}$	$\begin{array}{r} 520 \\ + 150 \\ \hline 670 \end{array} \text{ F.}$	$\begin{array}{r} 520 \\ - 25 \\ \hline 495 \end{array} \text{ G.}$

A.	B.	C.	D.	E.	F.	G.
204	510	550	501	140	600	495
109	214	243	500	595	670	128
400	68	511	280	720	137	420



$$\begin{array}{r} 250 \\ - 70 \\ \hline 180 \end{array}$$

$$\begin{array}{r} 250 \\ - 25 \\ \hline 225 \end{array}$$

$$\begin{array}{r} 250 \\ - 75 \\ \hline 175 \end{array}$$

$$\begin{array}{r} 324 \\ - 106 \\ \hline 218 \end{array}$$

$$\begin{array}{r} 324 \\ - 100 \\ \hline 224 \end{array}$$

$$\begin{array}{r} 324 \\ - 166 \\ \hline 158 \end{array}$$

$$\begin{array}{r} 430 \\ - 170 \\ \hline 260 \end{array}$$

$$\begin{array}{r} 430 \\ - 105 \\ \hline 325 \end{array}$$

$$\begin{array}{r} 430 \\ - 175 \\ \hline 255 \end{array}$$

$$\begin{array}{r} 300 \\ - 50 \\ \hline 250 \end{array}$$

$$\begin{array}{r} 300 \\ - 110 \\ \hline 190 \end{array}$$

$$\begin{array}{r} 300 \\ - 105 \\ \hline 195 \end{array}$$

$$\begin{array}{r} 300 \\ - 180 \\ \hline 120 \end{array}$$

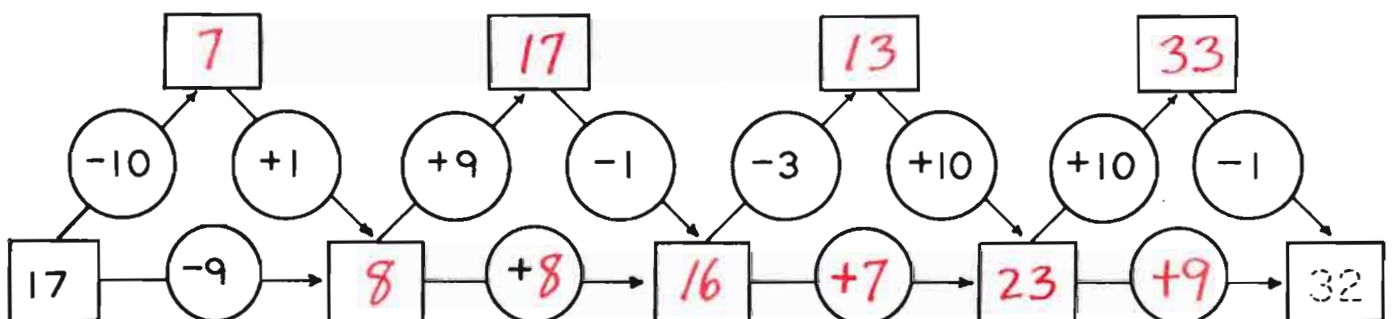
$$\begin{array}{r} 300 \\ - 189 \\ \hline 111 \end{array}$$

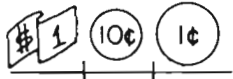
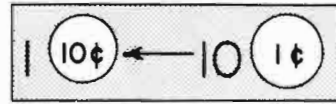
A	260	180	120
B	225	111	325
C	15	255	175
D	250	15	218
E	224	190	12
F	137	158	195

$$6 + 9 = 15$$

$$8 + 7 = 15$$

$$9 + 3 = 12$$





$$\begin{array}{r} 250 \\ + 250 \\ \hline 500 \end{array}$$

$$\begin{array}{r} 205 \\ + 205 \\ \hline 410 \end{array}$$

$$\begin{array}{r} 255 \\ + 255 \\ \hline 510 \end{array}$$

$$\begin{array}{r} 107 \\ + 203 \\ \hline 310 \end{array}$$

$$\begin{array}{r} 174 \\ + 235 \\ \hline 409 \end{array}$$

$$\begin{array}{r} 277 \\ + 244 \\ \hline 521 \end{array}$$

$$\begin{array}{r} 346 \\ + 523 \\ \hline 869 \end{array}$$

$$\begin{array}{r} 275 \\ + 275 \\ \hline 550 \end{array}$$

$$\begin{array}{r} 345 \\ + 155 \\ \hline 500 \end{array}$$

$$\begin{array}{r} 190 \\ + 110 \\ \hline 300 \end{array}$$

$$\begin{array}{r} 185 \\ + 110 \\ \hline 295 \end{array}$$

$$\begin{array}{r} 185 \\ + 115 \\ \hline 300 \end{array}$$

$$\begin{array}{r} 285 \\ + 225 \\ \hline 510 \end{array}$$

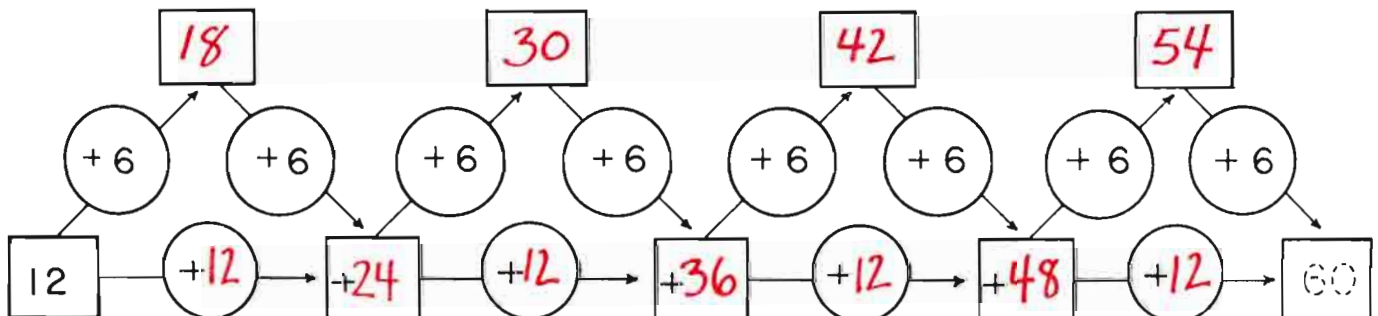
$$\begin{array}{r} 775 \\ + 125 \\ \hline 900 \end{array}$$

A	510	869	500
B	410	900	550
C	500	510	24
D	310	300	26
E	295	38	409
F	380	521	300

$$17 + 7 = 24$$

$$8 + 18 = 26$$

$$19 + 19 = 38$$



2, 3, 4, 5, 6, 7, 8, 9

Please make all examples different.

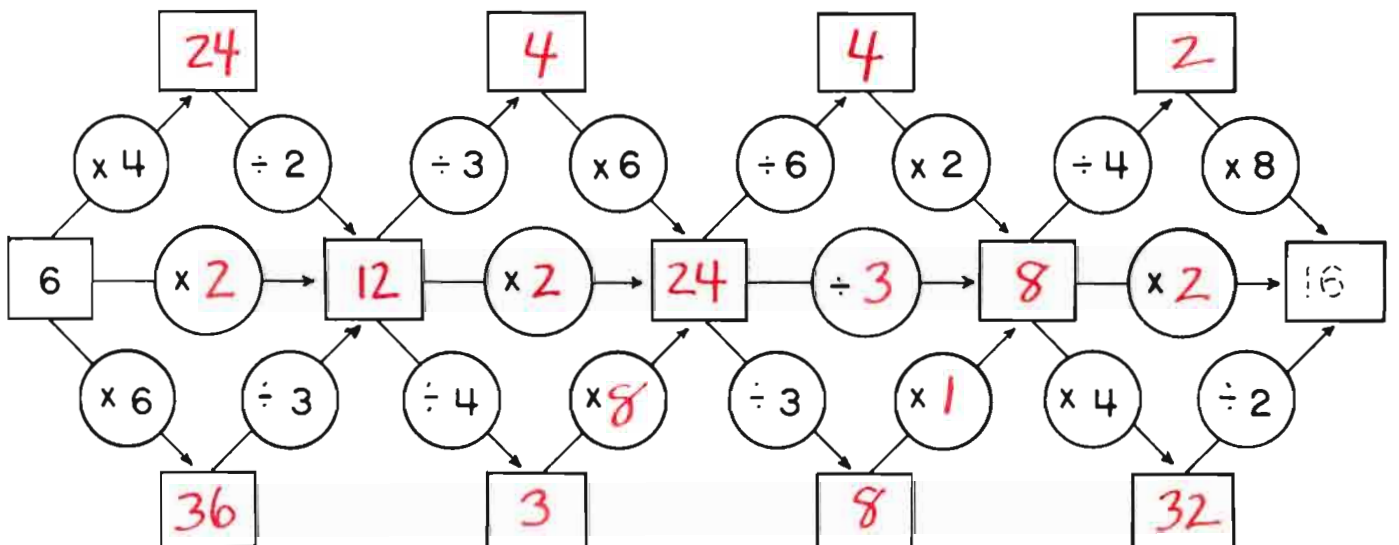
Favor de hacer todos los ejemplos diferentes.

$\begin{array}{r} \times 2 \\ 2 \\ \hline 4 \end{array}$	$\begin{array}{r} \times 3 \\ 2 \\ \hline 6 \end{array}$	$\begin{array}{r} \times 4 \\ 2 \\ \hline 8 \end{array}$	$\begin{array}{r} \times 3 \\ 3 \\ \hline 9 \end{array}$	$\begin{array}{r} \times 5 \\ 2 \\ \hline 10 \end{array}$	$\begin{array}{r} \times 6 \\ 2 \\ \hline 12 \end{array}$	$\begin{array}{r} \times 7 \\ 2 \\ \hline 14 \end{array}$
----------------------------------------------------------	----------------------------------------------------------	----------------------------------------------------------	----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------

$\begin{array}{r} \times 5 \\ 3 \\ \hline 15 \end{array}$	$\begin{array}{r} \times 4 \\ 4 \\ \hline 16 \end{array}$	$\begin{array}{r} \times 9 \\ 2 \\ \hline 18 \end{array}$	$\begin{array}{r} \times 5 \\ 4 \\ \hline 20 \end{array}$	$\begin{array}{r} \times 7 \\ 3 \\ \hline 21 \end{array}$	$\begin{array}{r} \times 6 \\ 4 \\ \hline 24 \end{array}$	$\begin{array}{r} \times 5 \\ 5 \\ \hline 25 \end{array}$
-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------

$\begin{array}{r} \times 9 \\ 3 \\ \hline 27 \end{array}$	$\begin{array}{r} \times 7 \\ 4 \\ \hline 28 \end{array}$	$\begin{array}{r} \times 8 \\ 4 \\ \hline 32 \end{array}$	$\begin{array}{r} \times 9 \\ 4 \\ \hline 36 \end{array}$	$\begin{array}{r} \times 8 \\ 5 \\ \hline 40 \end{array}$	$\begin{array}{r} \times 7 \\ 6 \\ \hline 42 \end{array}$	$\begin{array}{r} \times 9 \\ 5 \\ \hline 45 \end{array}$
-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------

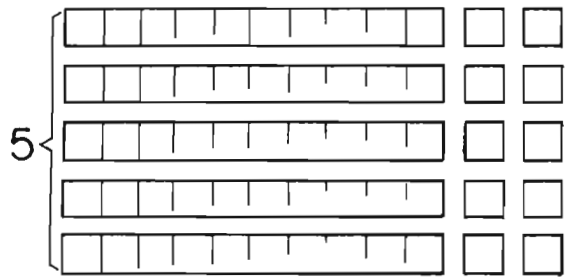
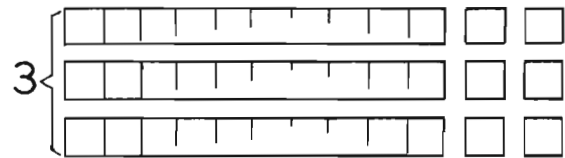
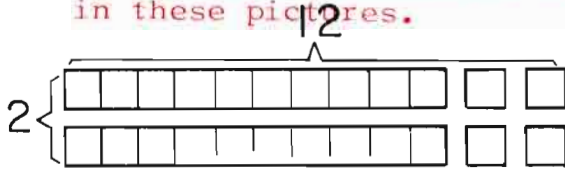
$\begin{array}{r} \times 8 \\ 6 \\ \hline 48 \end{array}$	$\begin{array}{r} \times 7 \\ 7 \\ \hline 49 \end{array}$	$\begin{array}{r} \times 9 \\ 6 \\ \hline 54 \end{array}$	$\begin{array}{r} \times 7 \\ 8 \\ \hline 56 \end{array}$	$\begin{array}{r} \times 8 \\ 8 \\ \hline 64 \end{array}$	$\begin{array}{r} \times 8 \\ 9 \\ \hline 72 \end{array}$	$\begin{array}{r} \times 9 \\ 9 \\ \hline 81 \end{array}$
-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------



What can you see?

¿Qué puede usted ver?

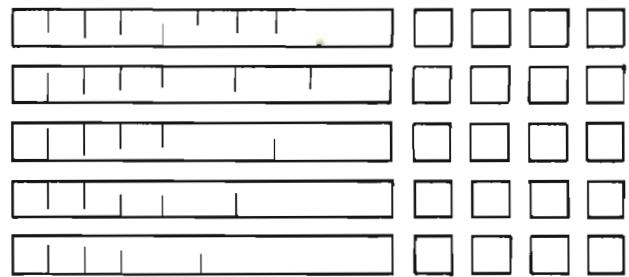
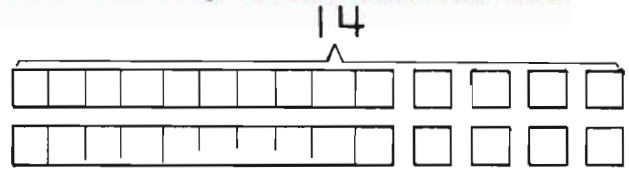
The child may verbalize to you what he already knows and can see in these pictures.



$$\begin{array}{r} 12 \\ \times 2 \\ \hline 24 \end{array} \text{ A.}$$

$$\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array} \text{ B.}$$

$$\begin{array}{r} 12 \\ \times 5 \\ \hline 60 \end{array} \text{ C.}$$

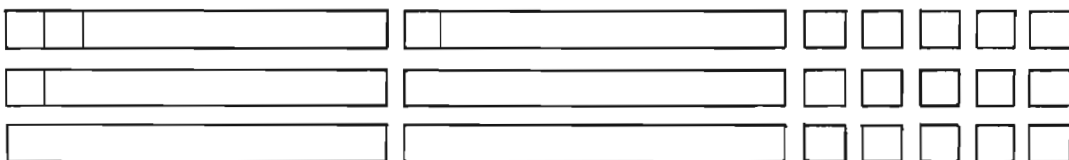
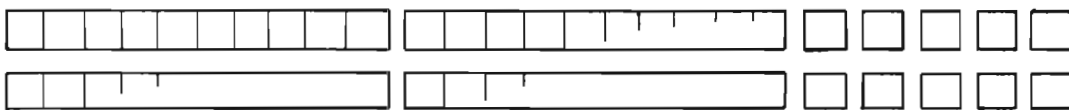


$$\begin{array}{r} 14 \\ \times 2 \\ \hline 28 \end{array} \text{ D.}$$

$$\begin{array}{r} 14 \\ \times 3 \\ \hline 42 \end{array} \text{ E.}$$

$$\begin{array}{r} 14 \\ \times 5 \\ \hline 70 \end{array} \text{ A.}$$

The child will probably count by tens and ones to write the products. You need not point out the shortcut for the multiplication operation at this time. If the abstraction is discovered, Hooray!



$$\begin{array}{r} 25 \\ \times 2 \\ \hline 50 \end{array} \text{ B.}$$

$$\begin{array}{r} 25 \\ \times 3 \\ \hline 75 \end{array} \text{ C.}$$

$$\begin{array}{r} 25 \\ \times 5 \\ \hline 125 \end{array} \text{ D.}$$

See also: C P/P pp. 53, 54.

A.	24	70
B.	50	36
C.	75	60
D.	28	125
E.	42	56

What can you see?

¿Qué puede usted ver?

13

15

$$\begin{array}{r} 13 \\ \times 2 \\ \hline 26 \end{array} \text{ A. } \begin{array}{r} 13 \\ \times 3 \\ \hline 39 \end{array} \text{ B. } \begin{array}{r} 13 \\ \times 4 \\ \hline 52 \end{array} \text{ C.}$$

$$\begin{array}{r} 15 \\ \times 2 \\ \hline 30 \end{array} \text{ D. } \begin{array}{r} 15 \\ \times 3 \\ \hline 45 \end{array} \text{ E. } \begin{array}{r} 15 \\ \times 4 \\ \hline 60 \end{array} \text{ A.}$$

$$\begin{array}{r} 23 \\ \times 2 \\ \hline 46 \end{array} \text{ B.}$$

$$\begin{array}{r} 23 \\ \times 3 \\ \hline 69 \end{array} \text{ C.}$$

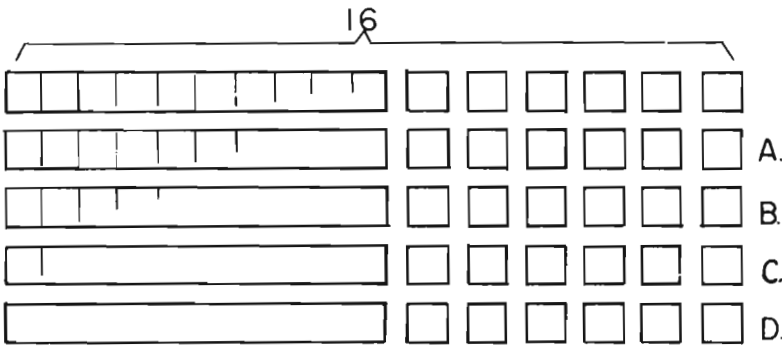
$$\begin{array}{r} 23 \\ \times 4 \\ \hline 92 \end{array} \text{ D.}$$

See also: D.I. pp. 145, 146.

A.	B.	C.	D.	E.
26	46	52	30	61
60	39	69	92	45

What can you see?

¿Qué puede usted ver?

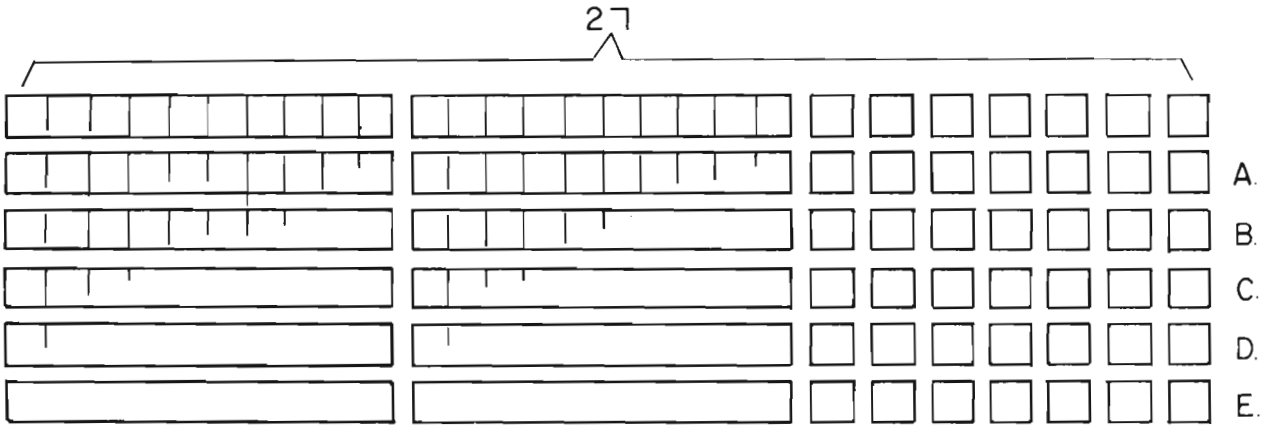


$$\begin{array}{r} 16 \\ \times 2 \\ \hline 32 \end{array} \text{ A.}$$

$$\begin{array}{r} 16 \\ \times 3 \\ \hline 48 \end{array} \text{ B.}$$

$$\begin{array}{r} 16 \\ \times 4 \\ \hline 64 \end{array} \text{ C.}$$

$$\begin{array}{r} 16 \\ \times 5 \\ \hline 80 \end{array} \text{ D.}$$



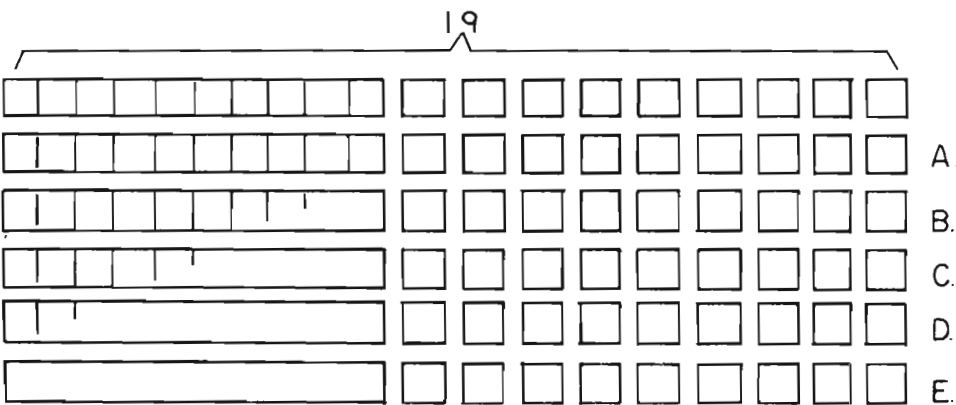
$$\begin{array}{r} 27 \\ \times 2 \\ \hline 54 \end{array} \text{ A.}$$

$$\begin{array}{r} 27 \\ \times 3 \\ \hline 81 \end{array} \text{ B.}$$

$$\begin{array}{r} 27 \\ \times 4 \\ \hline 108 \end{array} \text{ C.}$$

$$\begin{array}{r} 27 \\ \times 5 \\ \hline 135 \end{array} \text{ D.}$$

$$\begin{array}{r} 27 \\ \times 6 \\ \hline 162 \end{array} \text{ E.}$$



$$\begin{array}{r} 19 \\ \times 2 \\ \hline 38 \end{array} \text{ A.}$$

$$\begin{array}{r} 19 \\ \times 3 \\ \hline 57 \end{array} \text{ B.}$$

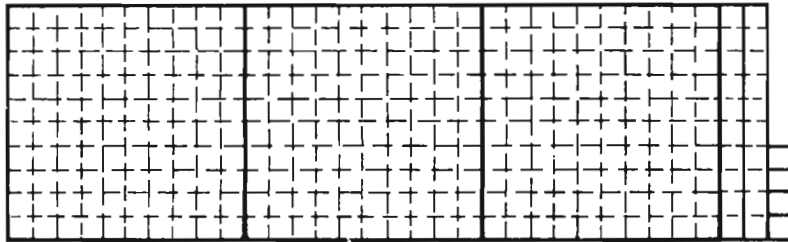
$$\begin{array}{r} 19 \\ \times 4 \\ \hline 76 \end{array} \text{ C.}$$

$$\begin{array}{r} 19 \\ \times 5 \\ \hline 95 \end{array} \text{ D.}$$

$$\begin{array}{r} 19 \\ \times 6 \\ \hline 114 \end{array} \text{ E.}$$

A.	32	38	54
B.	57	81	48
C.	108	64	76
D.	80	95	135
E.	105	162	114



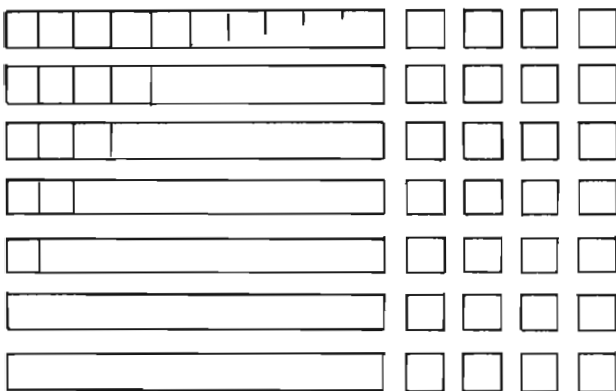


3 100's, 2 10's, 4 1's

$$\begin{array}{r} 324 \\ + 106 \\ \hline 430 \end{array} \quad \begin{array}{r} 324 \\ + 180 \\ \hline 504 \end{array} \quad \begin{array}{r} 324 \\ + 197 \\ \hline 521 \end{array}$$

$$\begin{array}{r} 324 \\ - 106 \\ \hline 218 \end{array} \quad \begin{array}{r} 324 \\ - 180 \\ \hline 144 \end{array} \quad \begin{array}{r} 324 \\ - 197 \\ \hline 127 \end{array}$$

$\begin{array}{r} 324 \\ - 34 \\ \hline 290 \end{array}$	$\begin{array}{r} 324 \\ + 184 \\ \hline 508 \end{array}$	$\begin{array}{r} 300 \\ - 150 \\ \hline 150 \end{array}$	$\begin{array}{r} 300 \\ - 205 \\ \hline 95 \end{array}$	$\begin{array}{r} 300 \\ - 175 \\ \hline 125 \end{array}$	$\begin{array}{r} 324 \\ + 648 \\ \hline 972 \end{array}$	$\begin{array}{r} 124 \\ + 777 \\ \hline 901 \end{array}$
----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------



2, 3, 4, 5, 6, 7, 8, 9

$\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$	$\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array}$	$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$	$\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$
-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------

$\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$	$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$	$\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$	$\begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array}$
-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------

$\begin{array}{r} 14 \\ \times 2 \\ \hline 28 \end{array}$	$\begin{array}{r} 14 \\ \times 3 \\ \hline 42 \end{array}$	$\begin{array}{r} 14 \\ \times 4 \\ \hline 56 \end{array}$
------------------------------------------------------------	------------------------------------------------------------	------------------------------------------------------------

$\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$	$\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$	$\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array}$	$\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$
-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------

$\begin{array}{r} 14 \\ \times 5 \\ \hline 70 \end{array}$	$\begin{array}{r} 14 \\ \times 6 \\ \hline 84 \end{array}$	$\begin{array}{r} 14 \\ \times 7 \\ \hline 98 \end{array}$
------------------------------------------------------------	------------------------------------------------------------	------------------------------------------------------------

How do you feel?  
¿Cómo se siente?



Dear Parents,

If you take a look at the first few tests in the C-Level Computation series and then at this last check-up exercise you will discover that your child has dealt with a lot of mathematics this year! The completed problems on the back of this page are testimony to the tremendous development in computational skills your child has made! And hopefully you have been able to detect the growth in the understanding of mathematical relationships that has been happening throughout the year.

On this last test a new step is illustrated with the place-value sketch of the groups of 14. This is the beginning of computing multiplication where regrouping is involved. Your child has now learned to do this, after also having learned the recording of this regrouping (carrying and borrowing) in addition and subtraction this year. By now you are familiar with our use of ten-sticks and beans (or dimes and pennies), so you can have your child show you what happens in these kinds of multiplication problems using these same materials. If you've come up with some materials that work better or just as well for you, we'd love to hear about them!

We can't thank you enough for your help and "friendly" support at home -- please keep it up! We're very happy about your child's progress this year and hope that the process of learning about mathematics will always be a fun, exciting, and happy one for you both! After all, there is no reason for it to be otherwise.

Sincerely,





*this book  
belongs to \_\_\_\_\_*

*este libro  
es de \_\_\_\_\_*