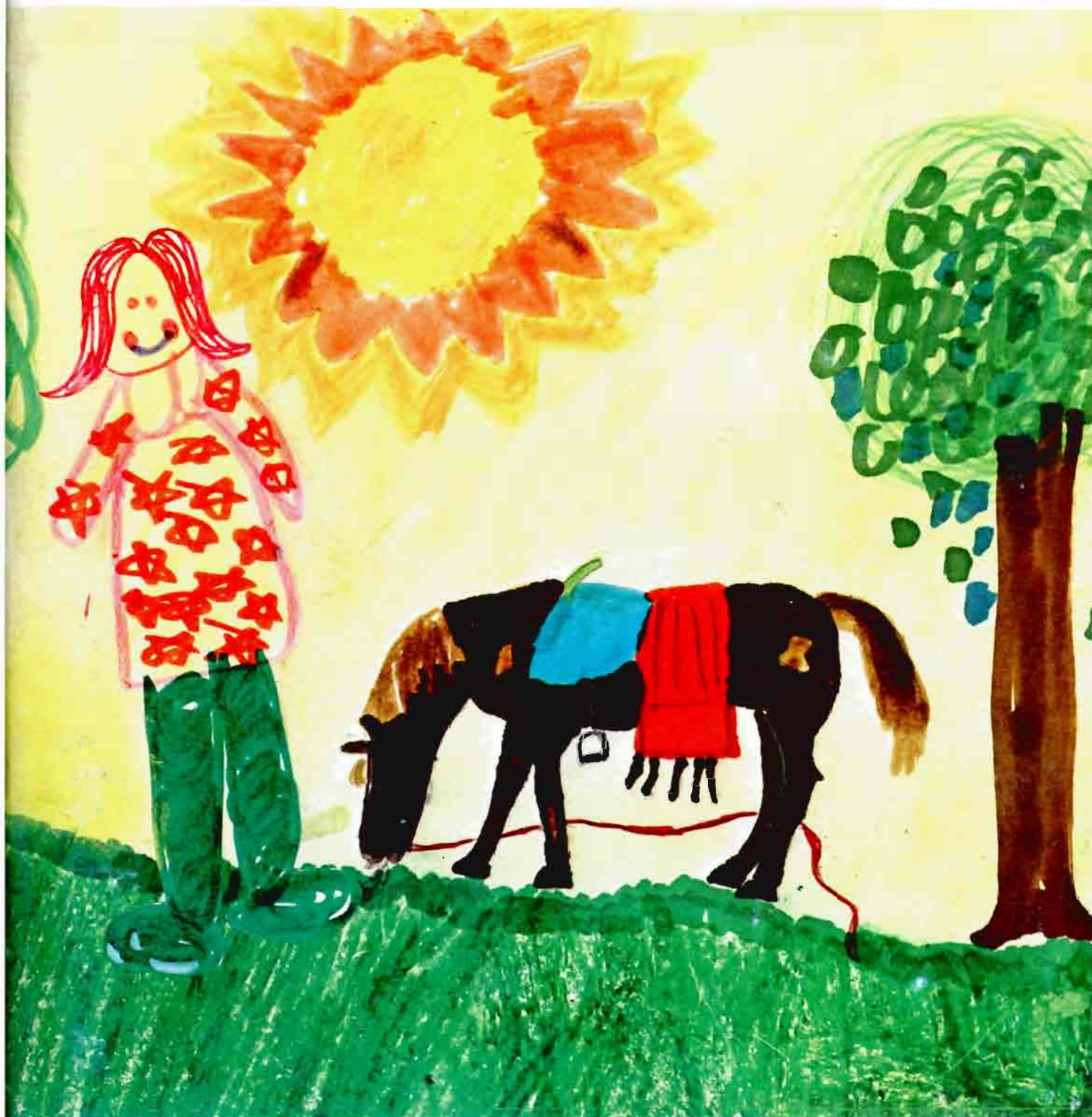


*answers &
annotations*

Individualized Computation

e₁





Cover Art
The Open Intermediate class of Patricia Faul and
Howard McCombs at R.H. Down School

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How many do you remember?

¿Cuántos recuerda usted?

The children may want to use this review page over and over and over and time their work. They may want to keep graphs of their progress.

Page 45 in Developing Insights may be duplicated for this purpose.

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

PUZZLES AND PROBLEMS

ROMBECABEZAS y PROBLEMAS

Chain Reactions

Reacción en Cadena

5 (+3) 8 (-4) 4 (+6) 10 (+9) 19 (+2) 21 (-3) 18 (-9) 9 (+1) 10

3 (+3) 6 (+3) 9 (+3) 12 (+3) 15 (+3) 18 (+3) 21 (+3) 24 (+3) 27

30 (-3) 27 (-3) 24 (-3) 21 (-3) 18 (-3) 15 (-3) 12 (-3) 9 (-3) 6

6 (+7) 13 (-8) 5 (+9) 14 (-7) 7 (+8) 15 (-9) 6 (+8) 14 (-8) 6

1 (+2) 3 (+3) 6 (+4) 10 (+5) 15 (+6) 21 (+7) 28 (+8) 36 (+9) 45

Correctly followed, the chain should end with the number at the far right.

Domino Puzzles



Rompecabezas de Dóminos

$4 + 6 = 10$	$8 + 8 = 16$	$30 + 10 = 40$

The children may want to try these with real dominoes. See also: Drill and Practice pp. 88 - 93

Loop Arithmetic

Aritmética de Lazo

See also: D & P pp. 19 - 24 for these same games at the representational level.

<p>Sumar y Restar (7+2) (7-2)</p>	<p>Adding and Subtracting</p>	<p>Here the child is to do both operations indicated, one above the broken line, one below. (6 × 3)</p>	<p>Multiplying and Dividing</p>	<p>Multiplicar y Dividir</p>
$7 \begin{array}{ c } \hline 9 \\ \hline 5 \\ \hline \end{array} \begin{array}{l} + \\ - \end{array} \begin{array}{c} 2 \\ 2 \end{array}$	$5 \begin{array}{ c } \hline 8 \\ \hline 2 \\ \hline \end{array} \begin{array}{l} + \\ - \end{array} \begin{array}{c} 3 \\ 3 \end{array}$	$6 \begin{array}{ c } \hline 18 \\ \hline 2 \\ \hline \end{array} \begin{array}{l} \times \\ \div \end{array} \begin{array}{c} 3 \\ 3 \end{array}$	$8 \begin{array}{ c } \hline 16 \\ \hline 4 \\ \hline \end{array} \begin{array}{l} \times \\ \div \end{array} \begin{array}{c} 2 \\ 2 \end{array}$	
$6 \begin{array}{ c } \hline 10 \\ \hline 2 \\ \hline \end{array} \begin{array}{l} + \\ - \end{array} \begin{array}{c} 4 \\ 4 \end{array}$	$4 \begin{array}{ c } \hline 6 \\ \hline 2 \\ \hline \end{array} \begin{array}{l} + \\ - \end{array} \begin{array}{c} 2 \\ 2 \end{array}$	$4 \begin{array}{ c } \hline 8 \\ \hline 2 \\ \hline \end{array} \begin{array}{l} \times \\ \div \end{array} \begin{array}{c} 2 \\ 2 \end{array}$	$6 \begin{array}{ c } \hline 12 \\ \hline 3 \\ \hline \end{array} \begin{array}{l} \times \\ \div \end{array} \begin{array}{c} 2 \\ 2 \end{array}$	
$10 \begin{array}{ c } \hline 13 \\ \hline 7 \\ \hline \end{array} \begin{array}{l} + \\ - \end{array} \begin{array}{c} 3 \\ 3 \end{array}$	$9 \begin{array}{ c } \hline 15 \\ \hline 3 \\ \hline \end{array} \begin{array}{l} + \\ - \end{array} \begin{array}{c} 6 \\ 6 \end{array}$	$10 \begin{array}{ c } \hline 20 \\ \hline 5 \\ \hline \end{array} \begin{array}{l} \times \\ \div \end{array} \begin{array}{c} 2 \\ 2 \end{array}$	$9 \begin{array}{ c } \hline 27 \\ \hline 3 \\ \hline \end{array} \begin{array}{l} \times \\ \div \end{array} \begin{array}{c} 3 \\ 3 \end{array}$	

Multiplying and Adding

..... using smallest numbers

Multiplicar y Sumar

..... usando los números más pequeños

$\begin{array}{ c c } \hline 3 & 2 \\ \hline 2 & 1 \\ \hline \end{array} \begin{array}{l} + \\ + \end{array} \begin{array}{c} 6 \\ 2 \\ \hline 8 \end{array}$	$\begin{array}{ c c } \hline 3 & 3 \\ \hline 4 & 1 \\ \hline \end{array} \begin{array}{l} + \\ + \end{array} \begin{array}{c} 9 \\ 4 \\ \hline 13 \end{array}$	$\begin{array}{ c c } \hline 2 & 3 \\ \hline 5 & 1 \\ \hline \end{array} \begin{array}{l} + \\ + \end{array} \begin{array}{c} 6 \\ 5 \\ \hline 11 \end{array}$	$\begin{array}{ c c } \hline 3 & 2 \\ \hline 7 & 2 \\ \hline \end{array} \begin{array}{l} + \\ + \end{array} \begin{array}{c} 6 \\ 14 \\ \hline 20 \end{array}$
$\begin{array}{ c c } \hline 3 & 1 \\ \hline 4 & 2 \\ \hline \end{array} \begin{array}{l} + \\ + \end{array} \begin{array}{c} 3 \\ 8 \\ \hline 11 \end{array}$	$\begin{array}{ c c } \hline 4 & 3 \\ \hline 5 & 1 \\ \hline \end{array} \begin{array}{l} + \\ + \end{array} \begin{array}{c} 12 \\ 5 \\ \hline 17 \end{array}$	$\begin{array}{ c c } \hline 2 & 3 \\ \hline 9 & 2 \\ \hline \end{array} \begin{array}{l} + \\ + \end{array} \begin{array}{c} 6 \\ 18 \\ \hline 24 \end{array}$	$\begin{array}{ c c } \hline 5 & 2 \\ \hline 8 & 3 \\ \hline \end{array} \begin{array}{l} + \\ + \end{array} \begin{array}{c} 10 \\ 24 \\ \hline 34 \end{array}$

TWO-WAY Chain Reactions

Reacción en cadena en DOS MANERAS

Down and to the right

Abajo y a la derecha

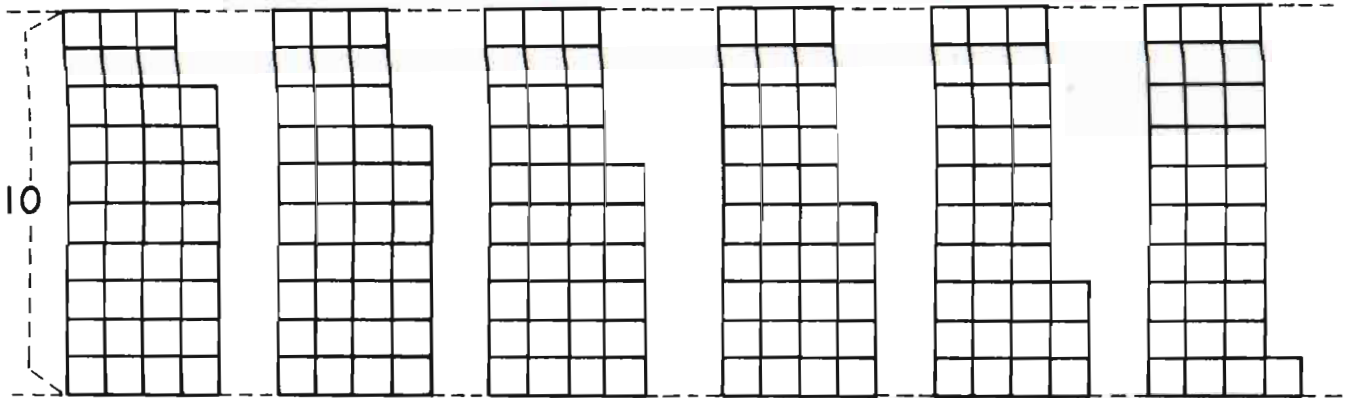
5	(+4)	9	(-3)	6
(-1)		(+3)		(+7)
↓		↓		↓
4	(+8)	12	(+1)	13
(+20)		(+10)		(+7)
↓		↓		↓
24	(-2)	22	(-2)	20

8	(-4)	4	(-3)	1
(+3)		(+11)		(+5)
↓		↓		↓
11	(+4)	15	(-9)	6
(+9)		(-5)		(+2)
↓		↓		↓
20	(-10)	10	(-2)	8

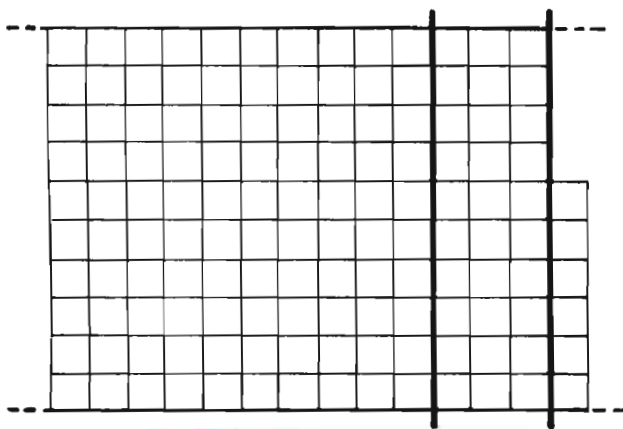
"HOW MANY?"

"¿CUANTOS?"

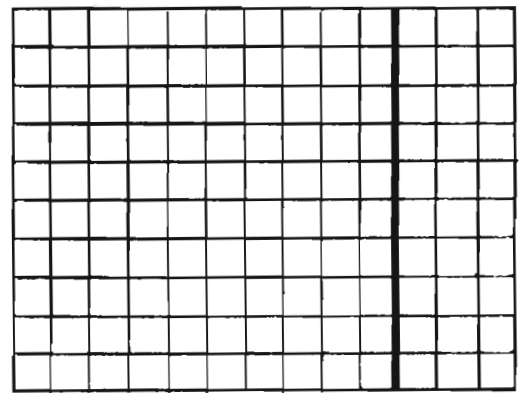
If counting is needed, encourage guessing first.
See also: D.I. p. 49 - 59 for more practice.



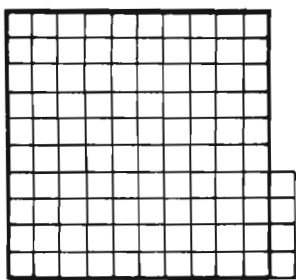
A **3 8** B **3 7** C **3 6** D **3 5** **3 3** E **3 1**



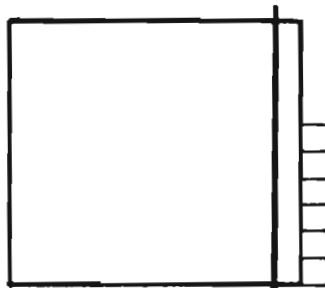
F **1 3 6**



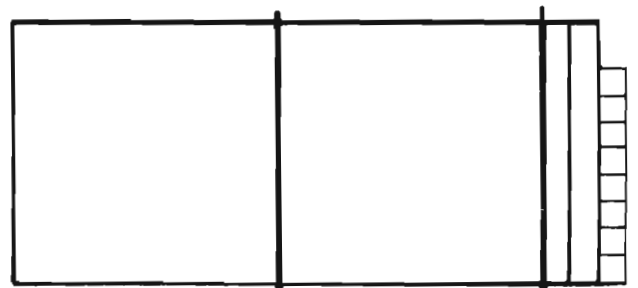
G **1 3 0**



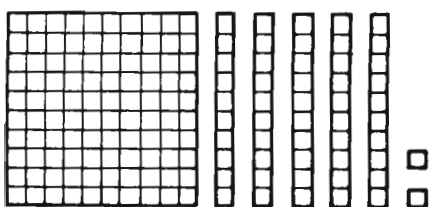
H **1 0 4**



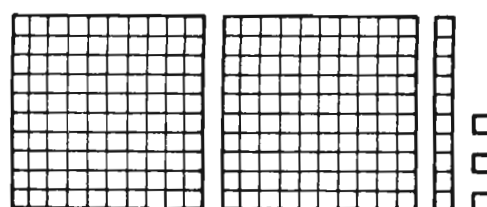
I **1 1 6**



A **2 2 8**



B **1 5 2**

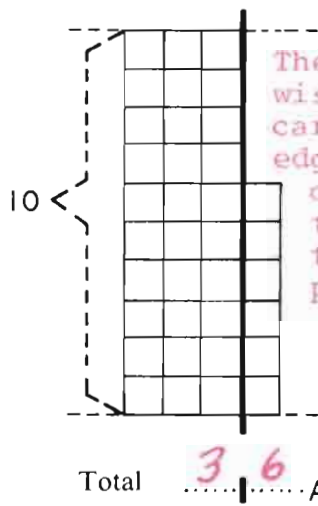


2 1 3

	A	B	C	D
E	228	37	31	282
F	22	136	45	35
G	38	47	130	138
H	104	26	36	140
I	206	152	72	116

"HOW MANY?" . . .

"¿CUANTOS?"



The child may wish to use a card or straight edge to block off parts of the diagram to work the problems.

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

$$\begin{array}{r} 36 \\ + 4 \\ \hline 40 \end{array} \text{ C}$$

$$\begin{array}{r} 36 \\ + 10 \\ \hline 46 \end{array}$$

$$\begin{array}{r} 36 \\ + 14 \\ \hline 50 \end{array} \text{ D}$$

$$\begin{array}{r} 14 \\ + 36 \\ \hline 50 \end{array} \text{ E}$$

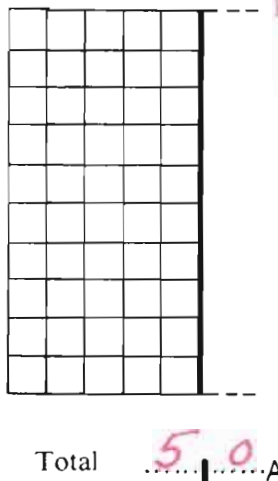
$$\begin{array}{r} 46 \\ + 4 \\ \hline 50 \end{array} \text{ F}$$

$$\begin{array}{r} 29 \\ + 7 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 19 \\ + 17 \\ \hline 36 \end{array} \text{ G}$$

$$\begin{array}{r} 27 \\ + 19 \\ \hline 46 \end{array} \text{ H}$$

See also: D & P p. 94 - 96
p. 124 - 135



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

$$\begin{array}{r} 50 \\ - 10 \\ \hline 40 \end{array} \text{ C}$$

$$\begin{array}{r} 50 \\ + 20 \\ \hline 70 \end{array}$$

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

$$\begin{array}{r} 50 \\ - 25 \\ \hline 25 \end{array} \text{ E}$$

$$\begin{array}{r} 50 \\ + 25 \\ \hline 75 \end{array} \text{ F}$$

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

$$\begin{array}{r} 50 \\ - 6 \\ \hline 44 \end{array}$$

$$\begin{array}{r} 50 \\ - 16 \\ \hline 34 \end{array} \text{ C}$$

FENCING

CERCANDO

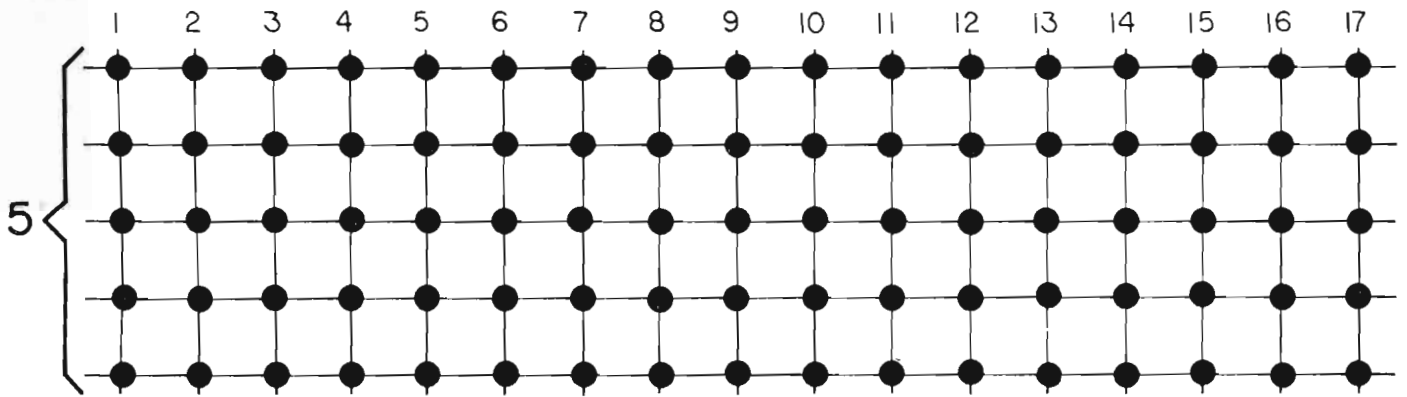
7's

6's

3	2	5	4
2	4	3	2
2	3	1	1
3	1	4	2

3	3	2	4
1	4	1	2
2	2	5	1
5	1	4	2

	A	B	C
D	50	100	34
E	25	30	50
F	36	50	75
G	100	36	40
H	46	50	40



Please complete the tables

Favor de completar las tablas

0	1	2	3	4	5	6	7	8	9	10	11	12	13
$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$
0	5	10	15	20	25	30	35	40	45	50	55	60	65
A	B	C	D	E	F	G	H	I	A	B	C	D	

1	2	4	8	16
$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$
5	10	20	40	80

F

4	5	9	10
$\times 5$	$\times 5$	$\times 5$	$\times 5$
20	25	45	50

3	6	9
$\times 5$	$\times 5$	$\times 5$
15	30	45

5	5	5	5
$\times 3$	$\times 4$	$\times 7$	$\times 11$
15	20	35	55

5	5	5	5
$\times 10$	$\times 9$	$\times 8$	$\times 7$
50	45	40	35

5	5	5	5
$\times 2$	$\times 3$	$\times 5$	$\times 8$
10	15	25	40

The diagram at the top may help solve the problems.

2	5	5	5	10	11	5	5	12	13	5	5	6	9
$\times 5$	$\times 5$	$\times 6$	$\times 1$	$\times 5$	$\times 5$	$\times 4$	$\times 7$	$\times 5$	$\times 5$	$\times 3$	$\times 8$	$\times 5$	$\times 5$
10	25	30	5	50	55	20	35	60	65	15	40	30	45

Please extend the patterns as indicated

Favor de extender las muestras

2 . 4 . 6 . 8 . 10 . 12 . 14 . 16 . 18 . 20 .

B

1 . 3 . 5 . 7 . 9 . 11 . 13 . 15 . 17 . 19 .

C

3 . 7 . 11 . 15 . 19 . 23 . 27 . 31 . 35 . 39 .

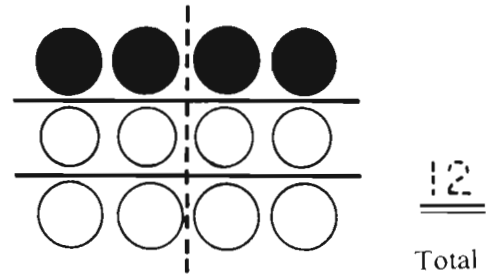
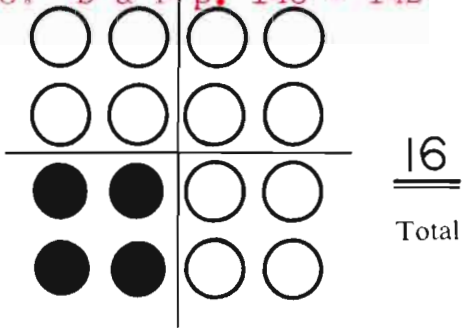
E

27 . 24 . 21 . 18 . 15 . 12 . 9 . 6 . 3 . 0 .

1 . 1 . 2 . 3 . 5 . 8 . 13 . 21 . 34 . 55 .

	A	B	C	D
E	20	10	19	15
F	80	50	25	60
G	45	5	9	30
H	0	35	55	13
I	40	13	10	35

Chalkboard, flannel board or poker chips may help set up this page.
 Cookies also work well.
 See also: D & P p. 140 - 142



$$\frac{1}{4} \text{ of } \underline{16} = \underline{4} \quad \text{A}$$

$$\frac{2}{4} \text{ of } \underline{16} = \underline{8} \quad \text{F}$$

$$\frac{3}{4} \text{ of } \underline{16} = \underline{12} \quad \text{B}$$

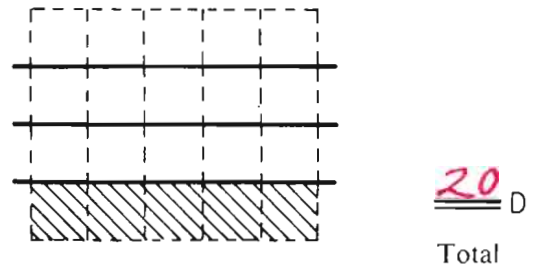
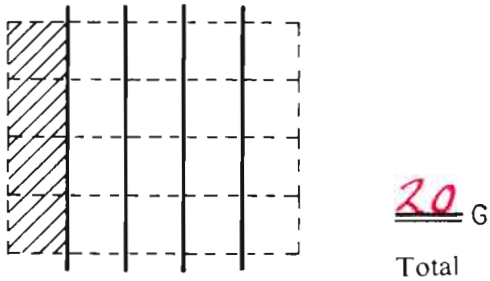
$$\frac{1}{2} \times \underline{16} = \underline{8} \quad \text{D}$$

$$\frac{1}{3} \text{ of } \underline{12} = \underline{4} \quad \text{C}$$

$$\frac{3}{3} \times \underline{12} = \underline{12} \quad \text{E}$$

$$\frac{2}{3} \text{ of } \underline{12} = \underline{8} \quad \text{D}$$

$$\frac{1}{2} \times \underline{12} = \underline{6} \quad \text{F}$$



$$\frac{1}{5} \text{ of } \underline{20} = \underline{4} \quad \text{H}$$

$$\frac{2}{5} \times \underline{20} = \underline{8} \quad \text{A}$$

$$\frac{3}{5} \times \underline{20} = \underline{12} \quad \text{J}$$

$$\frac{4}{5} \times \underline{20} = \underline{16} \quad \text{C}$$

$$\frac{1}{4} \times \underline{20} = \underline{5} \quad \text{E}$$

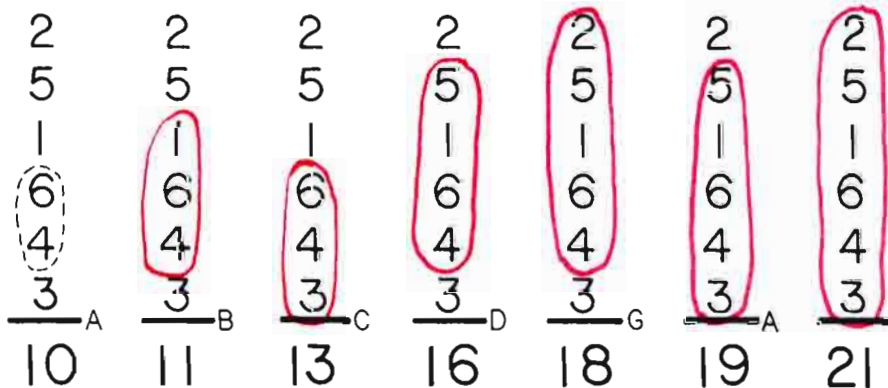
$$\frac{3}{4} \times \underline{20} = \underline{15} \quad \text{G}$$

$$\frac{2}{4} \times \underline{20} = \underline{10} \quad \text{F}$$

$$\frac{1}{2} \times \underline{20} = \underline{10} \quad \text{D}$$

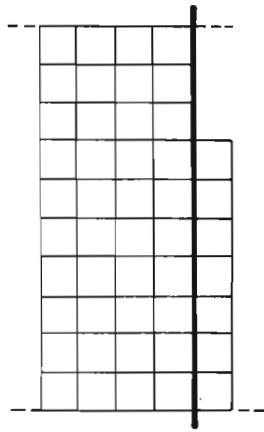
Please loop "Neighbors"
 whose sum is given

Favor de poner un lazo
 a los números "Vecinos"



	A	B	C	D
E	6,4	12	$\frac{64}{3}$	5
F	4	8	10	6
G	$\frac{25}{164}$	20	$\frac{25}{164}$	15
H	$\frac{5,16}{43}$	$\frac{1,6}{4}$	4	20
I	8	4	$\frac{25}{1}$	$\frac{5,1}{64}$
J	20	10	16	8

"HOW MANY?"



Total 47 A

See also:
D & P
p. 149-165

$$\begin{array}{r} 47 \\ - 7 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 47 \\ - 8 \\ \hline 39 \end{array} \text{ B}$$

$$\begin{array}{r} 50 \\ - 3 \\ \hline 47 \end{array} \text{ C}$$

$$\begin{array}{r} 47 \\ - 17 \\ \hline 30 \end{array} \text{ D}$$

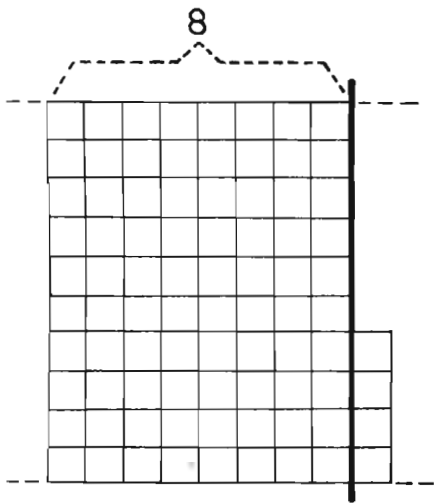
$$\begin{array}{r} 47 \\ - 18 \\ \hline 29 \end{array} \text{ E}$$

$$\begin{array}{r} 47 \\ - 28 \\ \hline 19 \end{array} \text{ F}$$

$$\begin{array}{r} 30 \\ + 17 \\ \hline 47 \end{array}$$

$$\begin{array}{r} 29 \\ + 18 \\ \hline 47 \end{array} \text{ G}$$

$$\begin{array}{r} 19 \\ + 28 \\ \hline 47 \end{array} \text{ H}$$



Total 84 A

$$\begin{array}{r} 90 \\ - 6 \\ \hline 84 \end{array} \text{ B}$$

$$\begin{array}{r} 84 \\ - 4 \\ \hline 80 \end{array}$$

$$\begin{array}{r} 84 \\ - 6 \\ \hline 78 \end{array} \text{ D}$$

$$\begin{array}{r} 84 \\ - 14 \\ \hline 70 \end{array}$$

$$\begin{array}{r} 84 \\ - 16 \\ \hline 68 \end{array} \text{ E}$$

$$\begin{array}{r} 84 \\ - 80 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 84 \\ + 6 \\ \hline 90 \end{array}$$

$$\begin{array}{r} 84 \\ + 16 \\ \hline 100 \end{array}$$

$$\begin{array}{r} 100 \\ - 16 \\ \hline 84 \end{array}$$

Please use the smallest whole numbers you can in the boxes

Favor de poner en cada cuadro el número entero más pequeño que usted pueda.

$$\begin{array}{r} 9 \quad 3 \quad 1 \\ \hline 2 \quad 0 \quad 2 \quad 20 \end{array}$$

Yes

$$\begin{array}{r} 9 \quad 3 \quad 1 \\ \hline 1 \quad 1 \quad 8 \quad 20 \end{array}$$

No

$$\begin{array}{r} 9 \quad 3 \quad 1 \\ \hline 0 \quad 2 \quad 2 \quad 8 \end{array} \text{ C}$$

$$\begin{array}{r} 9 \quad 3 \quad 1 \\ \hline 1 \quad 1 \quad 1 \quad 13 \end{array}$$

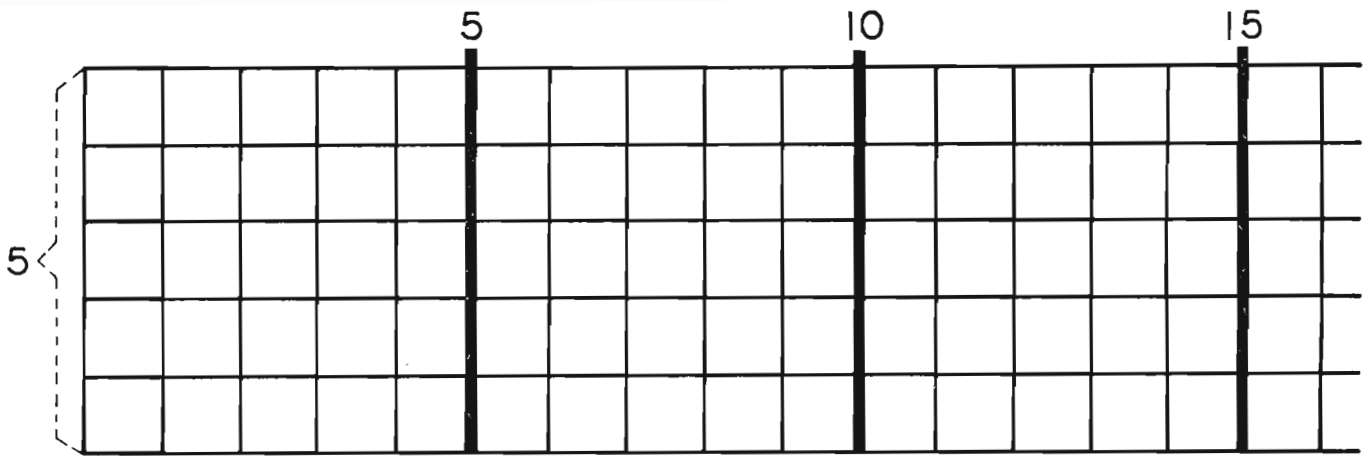
$$\begin{array}{r} 9 \quad 3 \quad 1 \\ \hline 2 \quad 0 \quad 0 \quad 18 \end{array}$$

	A	B	C
D	30	84	78
E	68	39	29
F	1,2,2	19	47
G	47	2,1,0	0,2,2
H	84	47	2,2,2

$$\begin{array}{r} 9 \quad 3 \quad 1 \\ \hline 1 \quad 2 \quad 2 \quad 17 \end{array} \text{ F}$$

$$\begin{array}{r} 9 \quad 3 \quad 1 \\ \hline 2 \quad 1 \quad 0 \quad 21 \end{array} \text{ G}$$

$$\begin{array}{r} 9 \quad 3 \quad 1 \\ \hline 2 \quad 2 \quad 2 \quad 26 \end{array} \text{ H}$$



$5 \overline{) 5}$	$5 \overline{) 10}$	$5 \overline{) 15}$	$5 \overline{) 20}$	$5 \overline{) 25}$	$5 \overline{) 30}$	$5 \overline{) 35}$	$5 \overline{) 40}$	$5 \overline{) 45}$
		A	B	C	D	E	F	G

$5 \overline{) 10}$	$5 \overline{) 20}$	$5 \overline{) 40}$	$5 \overline{) 60}$
---------------------	---------------------	---------------------	---------------------

H

$5 \overline{) 20}$	$5 \overline{) 15}$	$5 \overline{) 35}$	$5 \overline{) 50}$
---------------------	---------------------	---------------------	---------------------

$5 \overline{) 50}$	$5 \overline{) 25}$	$5 \overline{) 75}$	$5 \overline{) 100}$
---------------------	---------------------	---------------------	----------------------

I A

$5 \overline{) 25}$	$5 \overline{) 20}$	$5 \overline{) 15}$	$5 \overline{) 10}$
---------------------	---------------------	---------------------	---------------------

$5 \overline{) 45}$	$5 \overline{) 40}$	$5 \overline{) 35}$	$5 \overline{) 30}$
---------------------	---------------------	---------------------	---------------------

$1 \overline{) 5}$	$2 \overline{) 10}$	$4 \overline{) 20}$	$8 \overline{) 40}$
--------------------	---------------------	---------------------	---------------------

B

E

C

$5 \overline{) 10}$	$5 \overline{) 30}$	$4 \overline{) 20}$	$1 \overline{) 5}$	$5 \overline{) 35}$	$5 \overline{) 25}$	$8 \overline{) 40}$	$3 \overline{) 15}$	$5 \overline{) 45}$
---------------------	---------------------	---------------------	--------------------	---------------------	---------------------	---------------------	---------------------	---------------------

H

$\begin{array}{r} 32 \\ 32 \\ +32 \\ \hline 96 \end{array}$ A	$\begin{array}{r} 43 \\ 43 \\ +43 \\ \hline 129 \end{array}$ B	$\begin{array}{r} 34 \\ 34 \\ +34 \\ \hline 102 \end{array}$ C	$\begin{array}{r} 25 \\ 25 \\ +25 \\ \hline 75 \end{array}$ D	$\begin{array}{r} 52 \\ 52 \\ +52 \\ \hline 156 \end{array}$
---	--	--	---	--

$\begin{array}{r} 55 \\ 55 \\ +55 \\ \hline 165 \end{array}$ F	$\begin{array}{r} 66 \\ 66 \\ +66 \\ \hline 198 \end{array}$ G	$\begin{array}{r} 77 \\ 77 \\ +77 \\ \hline 231 \end{array}$ G	$\begin{array}{r} 88 \\ 88 \\ +88 \\ \hline 264 \end{array}$	$\begin{array}{r} 99 \\ 99 \\ +99 \\ \hline 297 \end{array}$ H
--	--	--	--	--

	A	B	C	D
E	20	35	102	30
F	15	5	40	165
G	45	231	25	198
H	297	20	8	12
I	96	129	15	75

Here is one of the many methods that lead to correct answers. Some call it "regrouping"; others call it "carrying and borrowing". If you already have a good method, please use it.

Este es una de las muchas maneras que le lleva a las respuestas correctas. Algunos lo llaman "regrupar" otros lo llaman "llevar y pedir prestado". Si usted ya tiene un buen método favor de usarlo.

The purpose of the shaded areas on this and similar pages is only to suggest ways of keeping track of "regrouping." Students need not complete the work in these areas.

Addition		Subtraction		Multiplication		Division	
$\begin{array}{r} 26 \\ +26 \\ \hline 52 \end{array}$	$\begin{array}{r} 26 \\ +26 \\ \hline 52 \end{array}$	$\begin{array}{r} 4 \\ \cancel{5}2 \\ -26 \\ \hline 26 \end{array}$	$\begin{array}{r} 52 \\ -26 \\ \hline 26 \end{array}$	$\begin{array}{r} 26 \\ \times 2 \\ \hline 52 \end{array}$	$\begin{array}{r} 26 \\ \times 2 \\ \hline 52 \end{array}$	$\begin{array}{r} 26 \\ 2\overline{)52} \end{array}$	$\begin{array}{r} 26 \\ 2\overline{)52} \end{array}$
$\begin{array}{r} 57 \\ +57 \\ \hline 114 \end{array}$	$\begin{array}{r} 57 \\ +57 \\ \hline 114 \end{array}$	$\begin{array}{r} 0 \\ \cancel{1}4 \\ -57 \\ \hline 5 \end{array}$	$\begin{array}{r} 114 \\ -57 \\ \hline 57 \end{array}$	$\begin{array}{r} 57 \\ \times 2 \\ \hline 114 \end{array}$	$\begin{array}{r} 57 \\ \times 2 \\ \hline 114 \end{array}$	$\begin{array}{r} 5 \\ 2\overline{)114} \end{array}$	$\begin{array}{r} 57 \\ 2\overline{)114} \end{array}$
$\begin{array}{r} 30 \\ +48 \\ \hline 78 \end{array}$	$\begin{array}{r} 35 \\ +48 \\ \hline 83 \end{array}$	$\begin{array}{r} 83 \\ -40 \\ \hline 43 \end{array}$	$\begin{array}{r} 83 \\ -48 \\ \hline 35 \end{array}$	$\begin{array}{r} 13 \\ \times 3 \\ \hline 39 \end{array}$	$\begin{array}{r} 18 \\ \times 3 \\ \hline 54 \end{array}$	$\begin{array}{r} 10 \\ 3\overline{)30} \end{array}$	$\begin{array}{r} 18 \\ 3\overline{)54} \end{array}$
$\begin{array}{r} 95 \\ +30 \\ \hline 125 \end{array}$	$\begin{array}{r} 95 \\ +36 \\ \hline 131 \end{array}$	$\begin{array}{r} 131 \\ -30 \\ \hline 101 \end{array}$	$\begin{array}{r} 131 \\ -36 \\ \hline 95 \end{array}$	$\begin{array}{r} 20 \\ \times 5 \\ \hline 100 \end{array}$	$\begin{array}{r} 27 \\ \times 5 \\ \hline 135 \end{array}$	$\begin{array}{r} 24 \\ 5\overline{)120} \end{array}$	$\begin{array}{r} 27 \\ 5\overline{)135} \end{array}$

"Regroup"?

¿Regrupa?

"YES" (Y) or "NO" (N)

(Y) N	Y (N)	Y (N)	Y (N)	Y (N)	Y (N)	Y (N)	Y (N)
$\begin{array}{r} 31 \\ +19 \\ \hline 50 \end{array}$	$\begin{array}{r} 55 \\ -13 \\ \hline 42 \end{array}$	$\begin{array}{r} 21 \\ \times 4 \\ \hline 84 \end{array}$	$\begin{array}{r} 45 \\ +53 \\ \hline 98 \end{array}$	$\begin{array}{r} 45 \\ -18 \\ \hline 27 \end{array}$	$\begin{array}{r} 16 \\ \times 2 \\ \hline 32 \end{array}$	$\begin{array}{r} 21 \\ 3\overline{)63} \end{array}$	$\begin{array}{r} 16 \\ 2\overline{)32} \end{array}$
A	B	C	D	E	F	G	I

	A	B	C	D	E
F	Y	27	35	Y	Y
G	135	N	114	N	54
H	114	18	N	41	83
I	28	19	131	57	Y
J	0	57	84	9	95

M ... 5¢

T = 3

12 inches = 1 FOOT

M	TOTAL
1	5¢
2	10¢ A
4	20¢
8	40¢ B
16	80¢
32	\$1.60 C
64	\$3.20 D

T	total
1	3
3	9
2	6
6	18
7	21 A
4	12 B
5	15

FEET	inches
1	12
2	24
3	36 C
$\frac{1}{2}$	6 D
$\frac{1}{3}$	4 E
$\frac{1}{4}$	3 F
$\frac{1}{6}$	2 A

C → $\frac{1}{2}$

1 METER
↓
10 decimeters

16 GLASSES
↓
1 gallon

C	TOTAL
2	3
4	6
6	9 B
10	15 C
20	30 F
8	12 D
16	24 E
12	18 F

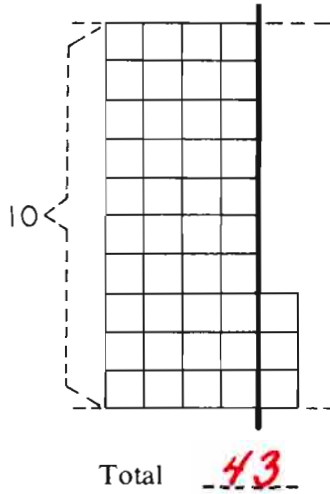
METERS	decimeters
1	10
2	20 F
3	30
9	90 B
$\frac{1}{2}$	5 B
$\frac{1}{10}$	1 D
$\frac{3}{10}$	3 E
5	50 B

GALLON	GLASSES
1	16
$\frac{1}{2}$	8 F
$\frac{1}{4}$	4 B
$\frac{1}{8}$	2 C

A	B	C	D	E	F
7	9	3	64	3	12
21	8	15	12	4	8
10	5	2	6	9	3
2	4	32	1	16	20

Addition
Sumar

$\begin{array}{r} 43 \\ +20 \\ \hline 63 \end{array}$	$\begin{array}{r} 43 \\ +7 \\ \hline 50 \end{array}$
$\begin{array}{r} 43 \\ +28 \\ \hline 71 \end{array}$	$\begin{array}{r} 33 \\ +9 \\ \hline 42 \end{array}$
$\begin{array}{r} 53 \\ +13 \\ \hline 66 \end{array}$	$\begin{array}{r} 43 \\ +43 \\ \hline 86 \end{array}$



Subtraction
Restar

$\begin{array}{r} 43 \\ -13 \\ \hline 30 \end{array}$	$\begin{array}{r} 43 \\ -4 \\ \hline 39 \end{array}$
$\begin{array}{r} 43 \\ -14 \\ \hline 29 \end{array}$	$\begin{array}{r} 73 \\ -15 \\ \hline 58 \end{array}$
$\begin{array}{r} 43 \\ -18 \\ \hline 25 \end{array}$	$\begin{array}{r} 53 \\ -26 \\ \hline 27 \end{array}$

0	1	2	3	4	5	6	7	8	9	10	11	12	13
$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$
<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>

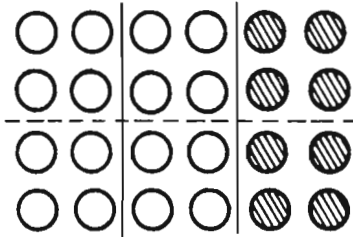
$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$	$\begin{array}{r} 10 \\ \times 5 \\ \hline 50 \end{array}$	$\begin{array}{r} 15 \\ \times 5 \\ \hline 75 \end{array}$
---	--	--

$\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$	$\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$	$\begin{array}{r} 16 \\ \times 5 \\ \hline 80 \end{array}$
---	---	--

$5 \overline{)35} \begin{array}{r} 7 \\ \hline \end{array}$	$5 \overline{)70} \begin{array}{r} 14 \\ \hline \end{array}$	$5 \overline{)45} \begin{array}{r} 9 \\ \hline \end{array}$	$5 \overline{)90} \begin{array}{r} 18 \\ \hline \end{array}$
$5 \overline{)25} \begin{array}{r} 5 \\ \hline \end{array}$	$5 \overline{)50} \begin{array}{r} 10 \\ \hline \end{array}$	$5 \overline{)75} \begin{array}{r} 15 \\ \hline \end{array}$	$5 \overline{)100} \begin{array}{r} 20 \\ \hline \end{array}$
$5 \overline{)40} \begin{array}{r} 8 \\ \hline \end{array}$	$5 \overline{)80} \begin{array}{r} 16 \\ \hline \end{array}$	$5 \overline{)55} \begin{array}{r} 11 \\ \hline \end{array}$	$5 \overline{)110} \begin{array}{r} 22 \\ \hline \end{array}$

$\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array}$	$\begin{array}{r} 10 \\ \times 5 \\ \hline 50 \end{array}$	$\begin{array}{r} 19 \\ \times 5 \\ \hline 95 \end{array}$
---	--	--

$\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$	$\begin{array}{r} 14 \\ \times 5 \\ \hline 70 \end{array}$	$\begin{array}{r} 28 \\ \times 5 \\ \hline 140 \end{array}$
---	--	---



How do you feel?
¿Cómo se siente?

24
Total

$\frac{1}{3}$ of 24 = 8
 $\frac{1}{2}$ \times 24 = 12

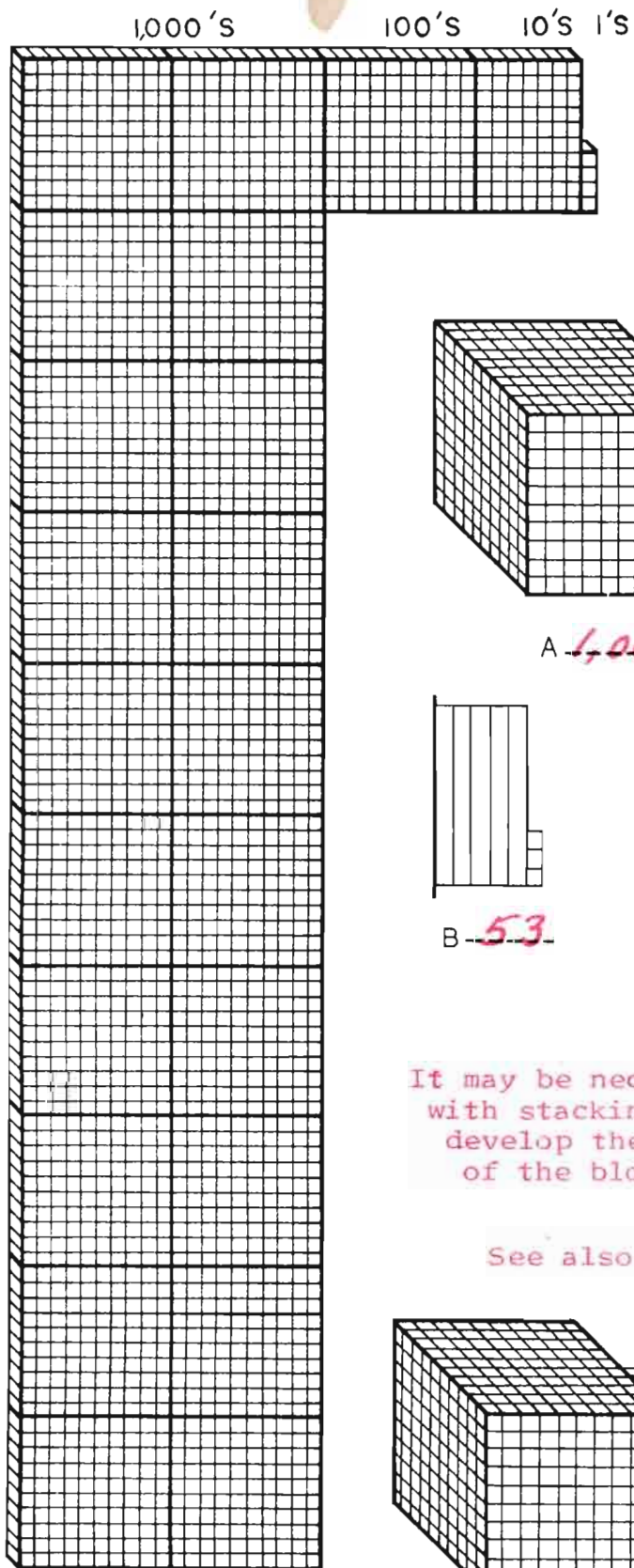
$\frac{2}{3}$ \times 24 = 16
 $\frac{3}{3}$ \times 24 = 24

$1W = 4N$

$1DOZ = 12EGGS$

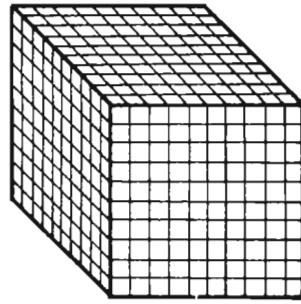
W	N
1	4
3	12
6	24
9	36
5	20

DOZ.	EGGS
1	12
3	36
$\frac{1}{2}$	6
$\frac{1}{3}$	4
$\frac{1}{6}$	2

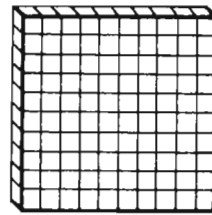


TWO thousand DOS mil
 ONE hundred CIENTO
 SEVEN ty SETENTA
 FOUR CUATRO

2,174



A 1,000



B 100



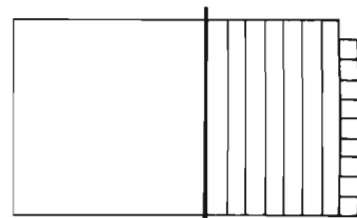
C 10



A 1



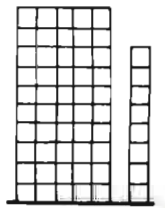
B 53



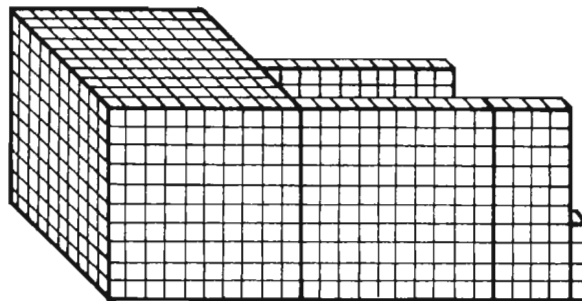
C 179

It may be necessary to precede this work with stacking blocks or centicubes to develop the child's understanding of the blocks he cannot see.

See also: D.I. p. 87 - 88



A 58

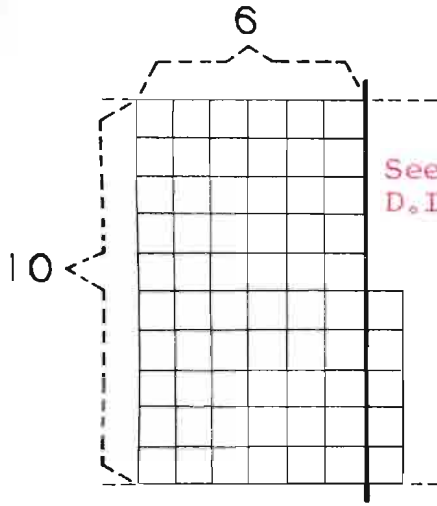


B 1,244

A	B	C
58	94	179
256	100	234
1	1,244	10
1,000	940	971
327	53	719

"HOW MANY?"

"¿CUANTOS?"



See also:
D.I. p. 105 - 109

Total6.5.....A

$$\begin{array}{r} 60 \\ + 5 \\ \hline 65 \end{array} \quad \text{E}$$

$$\begin{array}{r} 60 \\ + 10 \\ \hline 70 \end{array} \quad \text{B}$$

$$\begin{array}{r} 60 \\ + 15 \\ \hline 75 \end{array} \quad \text{G}$$

$$\begin{array}{r} 65 \\ - 5 \\ \hline 60 \end{array} \quad \text{C}$$

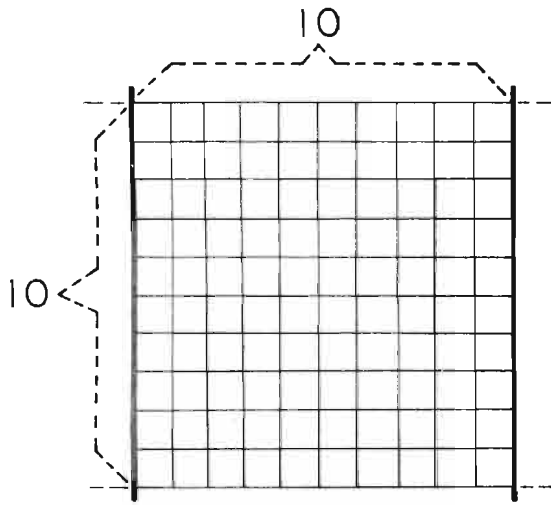
$$\begin{array}{r} 65 \\ - 6 \\ \hline 59 \end{array} \quad \text{A}$$

$$\begin{array}{r} 65 \\ - 16 \\ \hline 49 \end{array} \quad \text{C}$$

$$\begin{array}{r} 55 \\ + 5 \\ \hline 60 \end{array} \quad \text{H}$$

$$\begin{array}{r} 55 \\ + 15 \\ \hline 70 \end{array} \quad \text{D}$$

$$\begin{array}{r} 55 \\ + 35 \\ \hline 90 \end{array} \quad \text{H}$$



Total1.0.0.....B

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

$$\begin{array}{r} 100 \\ + 50 \\ \hline 150 \end{array} \quad \text{C}$$

$$\begin{array}{r} 150 \\ + 50 \\ \hline 200 \end{array} \quad \text{C}$$

$$\begin{array}{r} 100 \\ + 300 \\ \hline 400 \end{array} \quad \text{D}$$

$$\begin{array}{r} 150 \\ + 350 \\ \hline 500 \end{array} \quad \text{A}$$

$$\begin{array}{r} 125 \\ + 375 \\ \hline 500 \end{array} \quad \text{A}$$

$$\begin{array}{r} 100 \\ - 5 \\ \hline 95 \end{array} \quad \text{B}$$

$$\begin{array}{r} 100 \\ - 10 \\ \hline 90 \end{array} \quad \text{A}$$

$$\begin{array}{r} 100 \\ - 15 \\ \hline 85 \end{array} \quad \text{B}$$

Chain Reactions

Reacción en Cadena

$$2 \begin{array}{|c|} \hline +2 \\ \hline \end{array} 4 \begin{array}{|c|} \hline +2 \\ \hline \end{array} 6 \begin{array}{|c|} \hline +2 \\ \hline \end{array} 8 \begin{array}{|c|} \hline +2 \\ \hline \end{array} 10 \begin{array}{|c|} \hline +2 \\ \hline \end{array} 12 \begin{array}{|c|} \hline +2 \\ \hline \end{array} 14$$

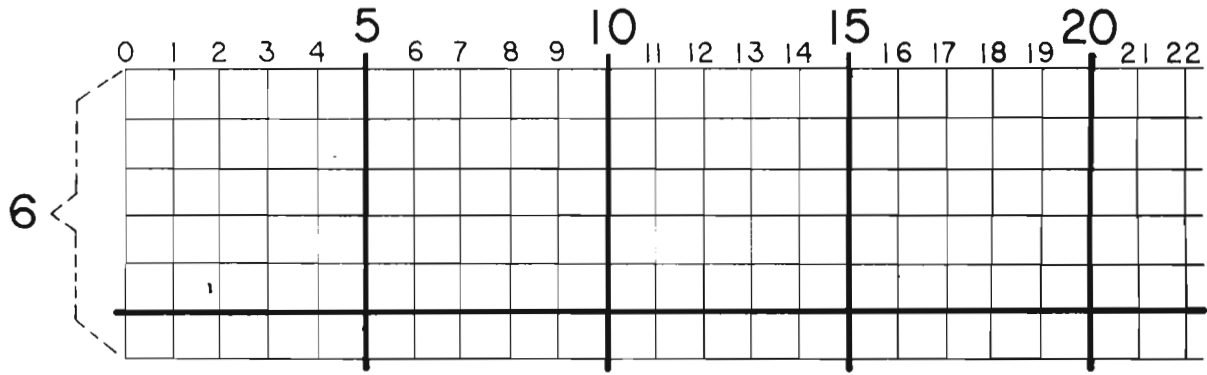
$$3 \begin{array}{|c|} \hline +3 \\ \hline \end{array} 6 \begin{array}{|c|} \hline +3 \\ \hline \end{array} 9 \begin{array}{|c|} \hline +3 \\ \hline \end{array} 12 \begin{array}{|c|} \hline +3 \\ \hline \end{array} 15 \begin{array}{|c|} \hline +3 \\ \hline \end{array} 18 \begin{array}{|c|} \hline +3 \\ \hline \end{array} 21$$

$$5 \begin{array}{|c|} \hline +5 \\ \hline \end{array} 10 \begin{array}{|c|} \hline +5 \\ \hline \end{array} 15 \begin{array}{|c|} \hline +5 \\ \hline \end{array} 20 \begin{array}{|c|} \hline +5 \\ \hline \end{array} 25 \begin{array}{|c|} \hline +5 \\ \hline \end{array} 30 \begin{array}{|c|} \hline +5 \\ \hline \end{array} 35$$

$$4 \begin{array}{|c|} \hline +4 \\ \hline \end{array} 8 \begin{array}{|c|} \hline +4 \\ \hline \end{array} 12 \begin{array}{|c|} \hline +4 \\ \hline \end{array} 16 \begin{array}{|c|} \hline +4 \\ \hline \end{array} 20 \begin{array}{|c|} \hline +4 \\ \hline \end{array} 24 \begin{array}{|c|} \hline +4 \\ \hline \end{array} 28$$

$$8 \begin{array}{|c|} \hline +8 \\ \hline \end{array} 16 \begin{array}{|c|} \hline +8 \\ \hline \end{array} 24 \begin{array}{|c|} \hline +8 \\ \hline \end{array} 32 \begin{array}{|c|} \hline +8 \\ \hline \end{array} 40 \begin{array}{|c|} \hline +8 \\ \hline \end{array} 48 \begin{array}{|c|} \hline +8 \\ \hline \end{array} 56$$

	A	B	C
D	500	70	12
E	65	85	49
F	16	100	200
G	59	75	6
H	90	40	60



Please complete the tables

Favor de completar las tablas

0	1	2	3	4	5	6	7	8	9	10	11	12	13
$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$
0	6	12	18	24	30	36	42	48	54	60	66	72	78

A B C D E F G H I A B C

1	2	4	8	12
$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$
6	12	24	48	72

6	6	6	6
$\times 2$	$\times 5$	$\times 7$	$\times 8$
12	30	42	48

3	6	9
$\times 6$	$\times 6$	$\times 6$
18	36	54

4	6	10	16
$\times 6$	$\times 6$	$\times 6$	$\times 6$
24	36	60	96

G

6	6	6	6
$\times 4$	$\times 3$	$\times 7$	$\times 8$
24	18	42	48

6	8	14	15
$\times 6$	$\times 6$	$\times 6$	$\times 6$
36	48	84	90

H D

5	10	15	6	6	6	10	3	13	6	6	6	7	14
$\times 6$	$\times 6$	$\times 6$	$\times 4$	$\times 5$	$\times 9$	$\times 6$	$\times 6$	$\times 6$	$\times 7$	$\times 8$	$\times 9$	$\times 6$	$\times 6$
30	60	90	24	30	54	60	18	78	42	48	54	42	84

D

D

Sums and Differences

Sumas y Diferencias

(10+7)
 $\boxed{10} + \frac{7}{3} = \bigcirc 7$

$\boxed{9} - \frac{13}{5} = \bigcirc 4$

$\boxed{8} - \frac{16}{0} = \bigcirc 8$

(10-7)
 $\boxed{6} + \frac{10}{2} = \bigcirc 4$

A $\boxed{9} - \frac{10}{8} = \bigcirc 1$

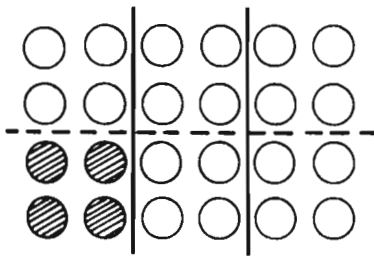
$\boxed{7} + \frac{10}{4} = \bigcirc 3$

C $\boxed{5} + \frac{10}{0} = \bigcirc 5$

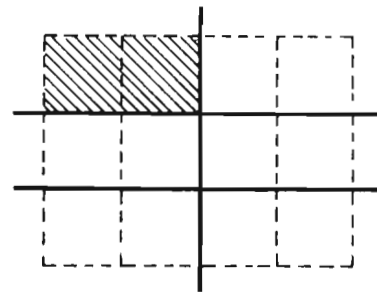
B $\boxed{9} - \frac{14}{4} = \bigcirc 5$

C $\boxed{8} - \frac{14}{2} = \bigcirc 6$

	A	B	C	D
E	9,1	18	36	90
F	12	6,4	78	42
G	48	96	5,5	30
H	54	9,5	24	84
I	66	72	8,6	60



24_A
Total



12_D
Total

$$\frac{1}{6} \text{ of } \frac{24}{A} = \frac{4}{B}$$

$$\frac{5}{6} \text{ of } \frac{24}{A} = \frac{20}{A}$$

$$\frac{3}{6} \text{ of } \frac{24}{A} = \frac{12}{C}$$

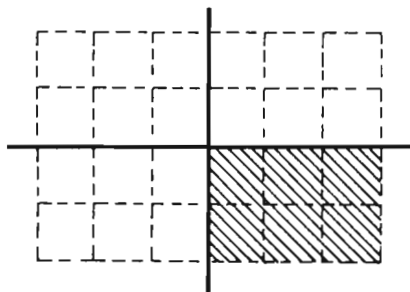
$$\frac{1}{2} \times \frac{24}{A} = \frac{12}{F}$$

$$\frac{1}{6} \text{ of } \frac{12}{D} = \frac{2}{D}$$

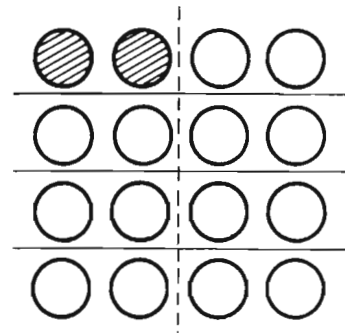
$$\frac{5}{6} \times \frac{12}{D} = \frac{10}{D}$$

$$\frac{2}{6} \times \frac{12}{D} = \frac{4}{G}$$

$$\frac{1}{3} \times \frac{12}{D} = \frac{4}{B}$$



24_E
Total



16_D
Total

$$\frac{1}{4} \text{ of } \frac{24}{E} = \frac{6}{H}$$

$$\frac{3}{4} \times \frac{24}{E} = \frac{18}{J}$$

$$\frac{2}{4} \times \frac{24}{E} = \frac{12}{I}$$

$$\frac{1}{2} \times \frac{24}{E} = \frac{12}{F}$$

$$\frac{1}{8} \times \frac{16}{D} = \frac{2}{E}$$

$$\frac{3}{8} \times \frac{16}{D} = \frac{6}{D}$$

$$\frac{4}{8} \times \frac{16}{D} = \frac{8}{C}$$

$$\frac{1}{2} \times \frac{16}{D} = \frac{8}{H}$$

12's

2	6	6	2
4	6	5	2
3	6	7	2
9	4	4	4

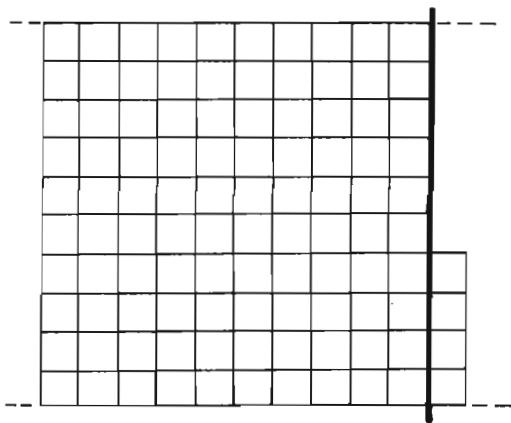
13's

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

	A	B	C	D
E	24	0	28	2
F	3	21	12	10
G	20	4	30	16
H	6	15	8	26
I	14	9	5	12
J	7	18	22	9

"HOW MANY?"

"¿CUANTOS?"



Total ... 1.0.4 A

$$\begin{array}{r} 104 \\ - 4 \\ \hline 100 \end{array} \text{ B}$$

$$\begin{array}{r} 104 \\ - 7 \\ \hline 97 \end{array} \text{ C}$$

$$\begin{array}{r} 104 \\ - 17 \\ \hline 87 \end{array} \text{ D}$$

$$\begin{array}{r} 204 \\ - 5 \\ \hline 199 \end{array} \text{ E}$$

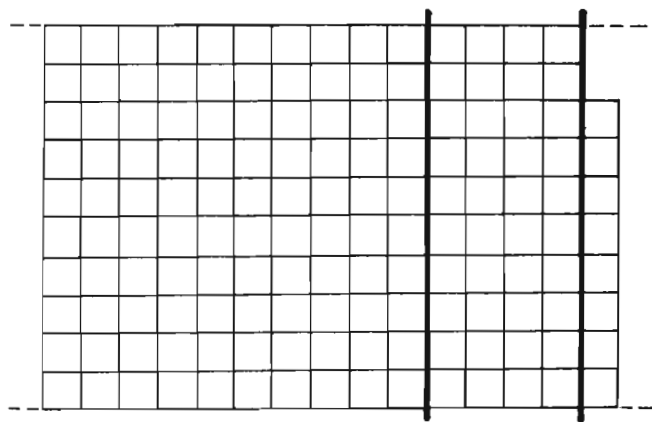
$$\begin{array}{r} 204 \\ - 15 \\ \hline 189 \end{array} \text{ F}$$

$$\begin{array}{r} 204 \\ - 25 \\ \hline 179 \end{array} \text{ G}$$

$$\begin{array}{r} 204 \\ - 10 \\ \hline 194 \end{array} \text{ H}$$

$$\begin{array}{r} 204 \\ - 40 \\ \hline 164 \end{array} \text{ A}$$

$$\begin{array}{r} 204 \\ - 45 \\ \hline 159 \end{array} \text{ B}$$



Total ... 1.4.8 C

$$\begin{array}{r} 140 \\ - 40 \\ \hline 100 \end{array} \text{ B}$$

$$\begin{array}{r} 140 \\ - 50 \\ \hline 90 \end{array} \text{ F}$$

$$\begin{array}{r} 140 \\ - 51 \\ \hline 89 \end{array} \text{ B}$$

$$\begin{array}{r} 148 \\ - 9 \\ \hline 139 \end{array} \text{ E}$$

$$\begin{array}{r} 148 \\ - 19 \\ \hline 129 \end{array}$$

$$\begin{array}{r} 148 \\ - 39 \\ \hline 109 \end{array} \text{ B}$$

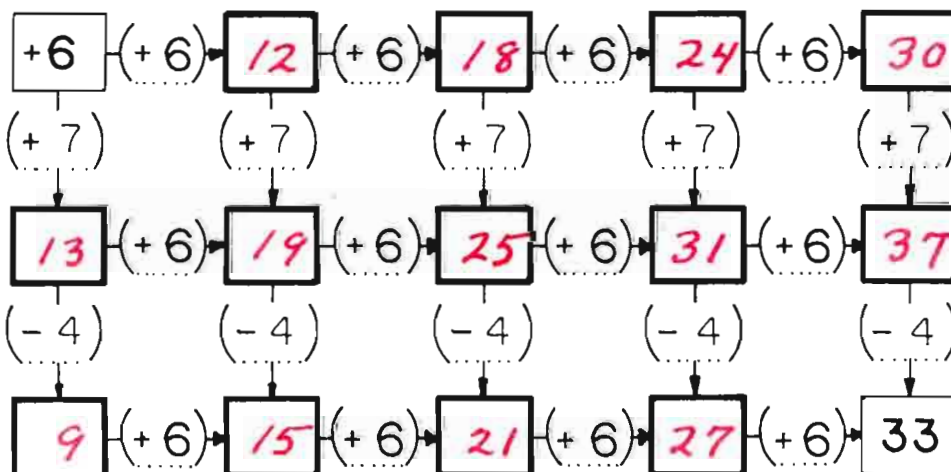
$$\begin{array}{r} 148 \\ - 50 \\ \hline 98 \end{array}$$

$$\begin{array}{r} 148 \\ - 58 \\ \hline 90 \end{array} \text{ C}$$

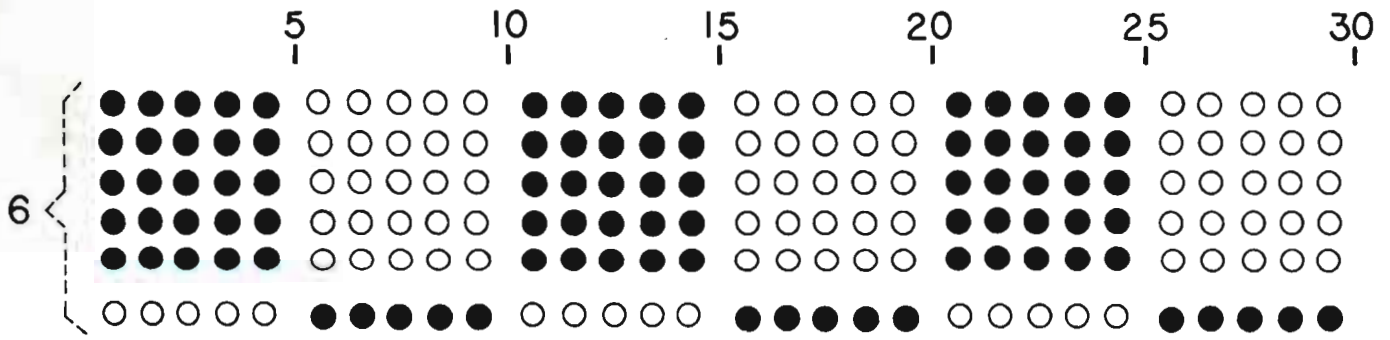
$$\begin{array}{r} 148 \\ - 59 \\ \hline 89 \end{array} \text{ D}$$

TWO-WAY Chain Reactions

Reacción en Cadena en DOS MANERAS.



	A	B	C
D	164	89	87
E	139	100	199
F	104	189	90
G	179	109	148
H	194	159	97



The diagram is divided into groups of 5 x 5 so that the child will be able to avoid one-to-one counting.
See also: D & P p. 140 - 142

Please complete the tables

Favor de completar las tablas

$6 \overline{) 6}$	$6 \overline{) 12}$	$6 \overline{) 18}$	$6 \overline{) 24}$	$6 \overline{) 30}$	$6 \overline{) 36}$	$6 \overline{) 42}$	$6 \overline{) 48}$	$6 \overline{) 54}$
		A	B	C	D	E	F	G

$6 \overline{) 18}$	$6 \overline{) 12}$	$6 \overline{) 30}$	$6 \overline{) 60}$
---------------------	---------------------	---------------------	---------------------

$6 \overline{) 6}$	$6 \overline{) 12}$	$6 \overline{) 24}$	$6 \overline{) 48}$
--------------------	---------------------	---------------------	---------------------

$3 \overline{) 18}$	$6 \overline{) 36}$	$9 \overline{) 54}$	$10 \overline{) 60}$
I		A	

$6 \overline{) 60}$	$6 \overline{) 12}$	$6 \overline{) 72}$	$6 \overline{) 78}$
			B

$6 \overline{) 60}$	$6 \overline{) 36}$	$6 \overline{) 96}$	$6 \overline{) 102}$
		C	

$9 \overline{) 54}$	$8 \overline{) 48}$	$7 \overline{) 42}$	$6 \overline{) 36}$
E			

$6 \overline{) 24}$	$6 \overline{) 54}$	$6 \overline{) 6}$	$3 \overline{) 18}$	$6 \overline{) 36}$	$7 \overline{) 42}$	$6 \overline{) 12}$	$6 \overline{) 48}$	$6 \overline{) 30}$
---------------------	---------------------	--------------------	---------------------	---------------------	---------------------	---------------------	---------------------	---------------------

Please loop "Neighbors" whose sum is given

Favor de poner un lazo a los "numeros vecinos" que dan la suma indicada.

7	7	7	7	7	7	7
4	4	4	4	4	4	4
8	8	8	8	8	8	8
3	3	3	3	3	3	3
5	5	5	5	5	5	5
9	9	9	9	9	9	9
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
14	16	36	29	27	20	17

	A	B	C	D
E	18	5,9	9	42
F	11	24	48	7,4,8 3,5,9
G	10	54	30	4,8,3 5,9
H	60	13	7,4 8,3	36
I	7,4,8 3,5	3	16	4,8,3

Please remember that this is one of several shortcuts to correct answers

Favor de recordar que este es uno de varios caminos cortos para obtener respuestas correctas.

$\begin{array}{r} \\ 39 \\ + 12 \\ \hline \end{array}$	$\begin{array}{r} 39 \\ + 12 \\ \hline 51 \end{array}$	$\begin{array}{r} 4 \\ 51 \\ - 12 \\ \hline \end{array}$	$\begin{array}{r} 51 \\ - 12 \\ \hline 39 \end{array}$	$\begin{array}{r} \\ 15 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ \times 3 \\ \hline 45 \end{array}$	$\begin{array}{r} \\ 3 \overline{) 45} \\ \hline \end{array}$	$\begin{array}{r} 15 \\ 3 \overline{) 45} \\ \hline \end{array}$
--	--	--	--	--	--	---	--

$\begin{array}{r} \\ 35 \\ + 35 \\ \hline 0 \end{array}$	$\begin{array}{r} 35 \\ + 35 \\ \hline 70 \end{array}$	$\begin{array}{r} 6 \\ 70 \\ - 35 \\ \hline \end{array}$	$\begin{array}{r} 70 \\ - 35 \\ \hline 35 \end{array}$	$\begin{array}{r} \\ 35 \\ \times 2 \\ \hline 0 \end{array}$	$\begin{array}{r} 35 \\ \times 2 \\ \hline 70 \end{array}$	$\begin{array}{r} 3 \\ 2 \overline{) 70} \\ \hline \end{array}$	$\begin{array}{r} 35 \\ 2 \overline{) 70} \\ \hline \end{array}$
--	--	--	--	--	--	---	--

$\begin{array}{r} \\ 147 \\ + 28 \\ \hline 5 \end{array}$	$\begin{array}{r} 147 \\ + 28 \\ \hline 175 \end{array}$	$\begin{array}{r} 6 \\ 175 \\ - 28 \\ \hline \end{array}$	$\begin{array}{r} 175 \\ - 28 \\ \hline 147 \end{array}$	$\begin{array}{r} \\ 54 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 54 \\ \times 3 \\ \hline 162 \end{array}$	$\begin{array}{r} 5 \\ 3 \overline{) 162} \\ \hline \end{array}$	$\begin{array}{r} 54 \\ 3 \overline{) 162} \\ \hline \end{array}$
---	--	---	--	--	---	--	---

$\begin{array}{r} 80 \\ + 89 \\ \hline 169 \end{array}$	$\begin{array}{r} 85 \\ + 89 \\ \hline 174 \end{array}$	$\begin{array}{r} 174 \\ - 84 \\ \hline 90 \end{array}$	$\begin{array}{r} 174 \\ - 89 \\ \hline 85 \end{array}$	$\begin{array}{r} 30 \\ \times 5 \\ \hline 150 \end{array}$	$\begin{array}{r} 35 \\ \times 5 \\ \hline 175 \end{array}$	$\begin{array}{r} 30 \\ 5 \overline{) 150} \\ \hline \end{array}$	$\begin{array}{r} 35 \\ 5 \overline{) 175} \\ \hline \end{array}$
---	---	---	---	---	---	---	---

$\begin{array}{r} 124 \\ + 345 \\ \hline 469 \end{array}$	$\begin{array}{r} 124 \\ + 348 \\ \hline 472 \end{array}$	$\begin{array}{r} 472 \\ - 342 \\ \hline 130 \end{array}$	$\begin{array}{r} 472 \\ - 348 \\ \hline 124 \end{array}$	$\begin{array}{r} 20 \\ \times 8 \\ \hline 160 \end{array}$	$\begin{array}{r} 24 \\ \times 8 \\ \hline 192 \end{array}$	$\begin{array}{r} 20 \\ 8 \overline{) 160} \\ \hline \end{array}$	$\begin{array}{r} 24 \\ 8 \overline{) 192} \\ \hline \end{array}$
---	---	---	---	---	---	---	---

"Regroup"?

¿"Regrupa"?

YES (Y) or NO (N)

<input checked="" type="radio"/> N	<input type="radio"/> N	<input type="radio"/> N	<input checked="" type="radio"/> N	<input checked="" type="radio"/> N	<input type="radio"/> N	<input checked="" type="radio"/> N	<input checked="" type="radio"/> N
$\begin{array}{r} 74 \\ + 16 \\ \hline 90 \end{array}$	$\begin{array}{r} 67 \\ + 32 \\ \hline 99 \end{array}$	$\begin{array}{r} 45 \\ - 24 \\ \hline 21 \end{array}$	$\begin{array}{r} 80 \\ - 51 \\ \hline 29 \end{array}$	$\begin{array}{r} 15 \\ \times 2 \\ \hline 30 \end{array}$	$\begin{array}{r} 21 \\ \times 4 \\ \hline 84 \end{array}$	$\begin{array}{r} 18 \\ 2 \overline{) 36} \\ \hline \end{array}$	$\begin{array}{r} 29 \\ 2 \overline{) 58} \\ \hline \end{array}$

	A	B	C	D	E
F	162	24	124	15	175
G	35	39	174	85	147
H	Y	N	Y	Y	N
I	51	472	45	192	70
Y	54	Y	175	N	

BOOK

15 ¢

books total

books	total	
1	15 ¢	
2	30 ¢	A
4	60 ¢	B
8	\$1.20	C
5	75 ¢	
10	\$1.50	D
20	\$3.00	E

50 MILES/HOUR

HOURS MILES

HOURS	MILES	
1	50	
3	150	
5	250	F
$\frac{1}{5}$ (12 min)	10	G
$\frac{1}{2}$	25	
$\frac{1}{10}$ (6 min)	5	I
$1\frac{1}{2}$	75	J

1 CARTON

6 CANS

cartons cans

cartons	cans	
1	6	
2	12	
3	18	
5	30	D
8	48	C
9	54	D
7	42	

1 DAY = 24 HOURS

days hours

days	hours	
1	24	
2	48	G
$\frac{1}{2}$	12	H
$\frac{1}{3}$	8	I
$\frac{1}{4}$	6	J
$\frac{1}{6}$	4	A
$1\frac{1}{3}$	32	G
$2\frac{1}{2}$	60	H

1 M = 100 CM

M CM

M	CM	
1	100	
$\frac{1}{2}$	50	I
$\frac{1}{4}$	25	B
$\frac{3}{4}$	75	E
$\frac{1}{10}$	10	G
$1\frac{1}{2}$	150	H
$2\frac{1}{10}$	210	I
$5\frac{3}{10}$	530	J

1 YARD =

36 inches

yards inches

yards	inches	
$\frac{1}{2}$	18	H
$\frac{1}{3}$	12	D
$\frac{1}{4}$	9	
$\frac{1}{6}$	6	J

	A	B	C	D	E	F
G	4	25	48	10	75	32
H	18	60	150	12	$\frac{1}{2}$	250
I	50	30	8	5	210	$\frac{1}{3}$
J	30	$1\frac{1}{2}$	530	54	300	6

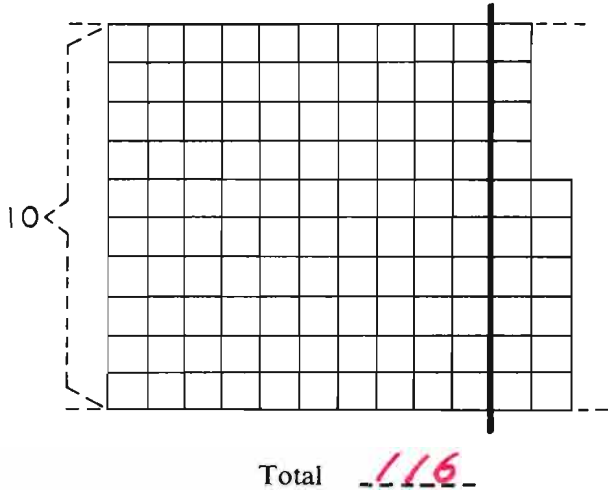
Addition
Sumas

Subtraction
Diferencias

$$\begin{array}{r} 100 \\ + 16 \\ \hline 116 \end{array} \quad \begin{array}{r} 116 \\ + 30 \\ \hline 146 \end{array}$$

$$\begin{array}{r} 116 \\ + 4 \\ \hline 120 \end{array} \quad \begin{array}{r} 116 \\ + 54 \\ \hline 170 \end{array}$$

$$\begin{array}{r} 112 \\ + 18 \\ \hline 130 \end{array} \quad \begin{array}{r} 125 \\ + 75 \\ \hline 200 \end{array}$$



$$\begin{array}{r} 100 \\ - 10 \\ \hline 90 \end{array} \quad \begin{array}{r} 116 \\ - 9 \\ \hline 107 \end{array}$$

$$\begin{array}{r} 116 \\ - 16 \\ \hline 100 \end{array} \quad \begin{array}{r} 116 \\ - 18 \\ \hline 98 \end{array}$$

$$\begin{array}{r} 116 \\ - 20 \\ \hline 96 \end{array} \quad \begin{array}{r} 116 \\ - 51 \\ \hline 65 \end{array}$$

0	1	2	3	4	5	6	7	8	9	10	11	12	13
$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$
0	6	12	18	24	30	36	42	48	54	60	66	72	78

4	10	14
$\times 6$	$\times 6$	$\times 6$
24	60	84

10	30	40
$\times 6$	$\times 6$	$\times 6$
60	120	240

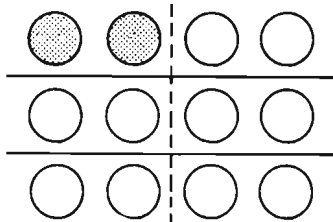
$6 \overline{)60}$	$6 \overline{)24}$	$6 \overline{)84}$	$6 \overline{)90}$
$6 \overline{)120}$	$6 \overline{)12}$	$6 \overline{)132}$	$6 \overline{)138}$
$6 \overline{)24}$	$6 \overline{)48}$	$6 \overline{)72}$	$6 \overline{)96}$

7	20	27
$\times 6$	$\times 6$	$\times 6$
42	120	162

8	9	17
$\times 6$	$\times 6$	$\times 6$
48	54	102



How do you feel?
¿Cómo se siente?



Total

$$\frac{1}{6} \text{ of } 12 = \underline{2}$$

$$\frac{3}{6} \times 12 = \underline{6}$$

$$\frac{5}{6} \times 12 = \underline{10}$$

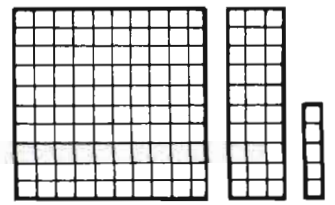
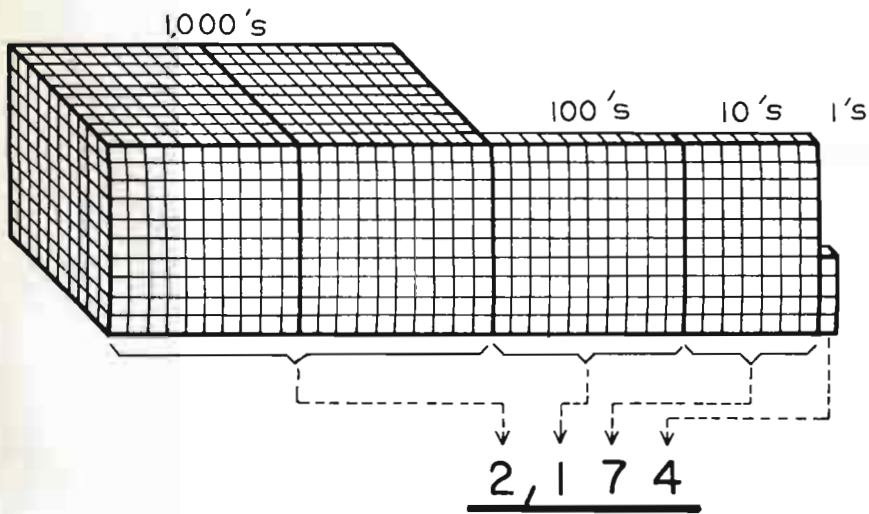
$$\frac{1}{2} \times 12 = \underline{6}$$

$$1 \text{ (25¢)} = 5 \text{ (5¢)}$$

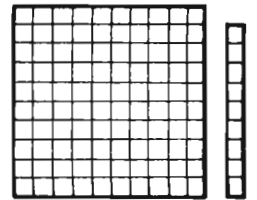
1 DOLLAR.....
.....100 CENTS

(25¢)	(5¢)
1	5
3	15
$\frac{1}{5}$	1
$\frac{2}{5}$	2
10	50

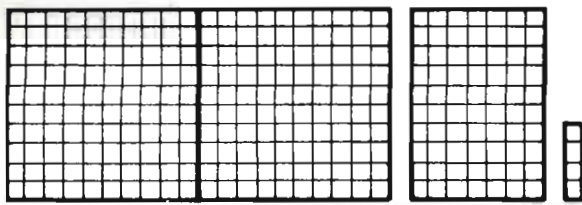
dollars	cents
1	100
$\frac{1}{2}$	50
$\frac{1}{4}$	25
$\frac{1}{10}$	10
$3 \frac{1}{100}$	301



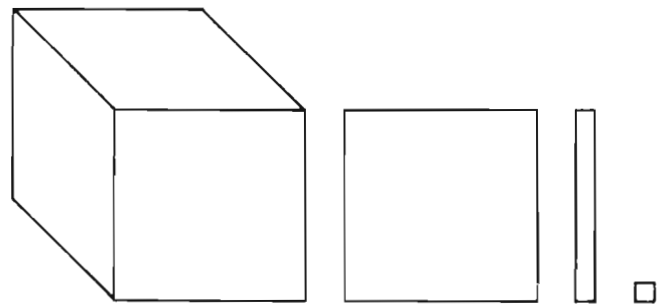
A 135



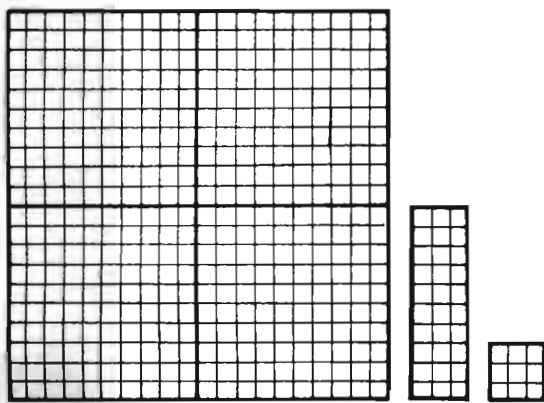
B 109



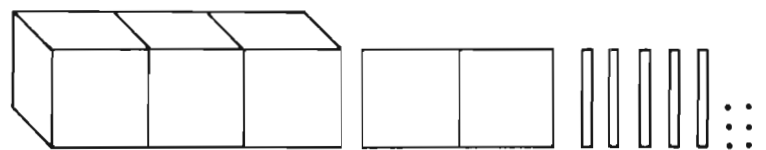
A 274



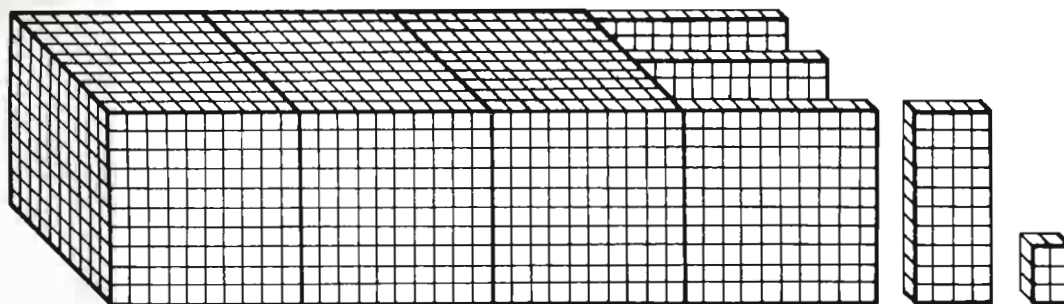
B 4,111



A 439



B 3,256

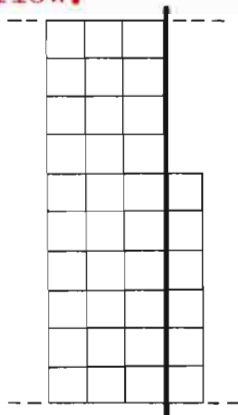


A 3,346

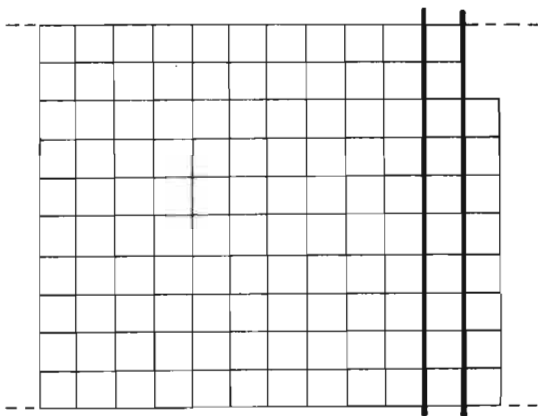
A	B
3,126	3,256
135	207
513	1,111
3,024	109
439	3,169
968	279
3,346	1,003
274	4,126

"HOW MANY?"

division examples on this page and others to follow.



Total **3.6** A



Total **1.18** G

You might like to observe student reaction to the "form" of the two

"¿CUANTOS?"

$$\begin{array}{r} 36 \\ + 4 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 36 \\ + 14 \\ \hline 50 \end{array} \text{ B}$$

$$\begin{array}{r} 34 \\ + 16 \\ \hline 50 \end{array} \text{ D}$$

$$\begin{array}{r} 34 \\ + 19 \\ \hline 53 \end{array} \text{ C}$$

$$\begin{array}{r} 36 \\ + 36 \\ \hline 72 \end{array} \text{ D}$$

$$\begin{array}{r} 72 \\ + 36 \\ \hline 108 \end{array} \text{ E}$$

$$\begin{array}{r} 36 \\ \times 2 \\ \hline 72 \end{array} \text{ C}$$

$$\begin{array}{r} 36 \\ \times 3 \\ \hline 108 \end{array} \text{ B}$$

$$\begin{array}{r} 36 \\ \div 2 \\ \hline 18 \end{array} \text{ H}$$

$$\begin{array}{r} 100 \\ + 18 \\ \hline 118 \end{array} \text{ B}$$

$$\begin{array}{r} 118 \\ + 12 \\ \hline 130 \end{array}$$

$$\begin{array}{r} 112 \\ + 78 \\ \hline 190 \end{array} \text{ I}$$

$$\begin{array}{r} 118 \\ + 900 \\ \hline 1018 \end{array} \text{ J}$$

$$\begin{array}{r} 118 \\ + 118 \\ \hline 236 \end{array} \text{ A}$$

$$\begin{array}{r} 236 \\ + 118 \\ \hline 354 \end{array} \text{ C}$$

$$\begin{array}{r} 118 \\ \times 2 \\ \hline 236 \end{array} \text{ E}$$

$$\begin{array}{r} 118 \\ \times 3 \\ \hline 354 \end{array} \text{ E}$$

$$\begin{array}{r} 118 \\ \div 2 \\ \hline 59 \end{array} \text{ F}$$

Loop Arithmetic

$$\begin{array}{ccc} 3 & 3 & 3 \\ 5 & 5 & 5 \end{array} \text{ (16) A}$$

$$\begin{array}{ccc} 3 & 3 & 3 \\ 5 & 5 & 5 \end{array} \text{ (14)}$$

Aritmética de Lazo

$$\begin{array}{ccc} 2 & 2 & 2 \\ 7 & 7 & 7 \end{array} \text{ (18)}$$

$$\begin{array}{ccc} 2 & 2 & 2 \\ 7 & 7 & 7 \end{array} \text{ (13) H}$$

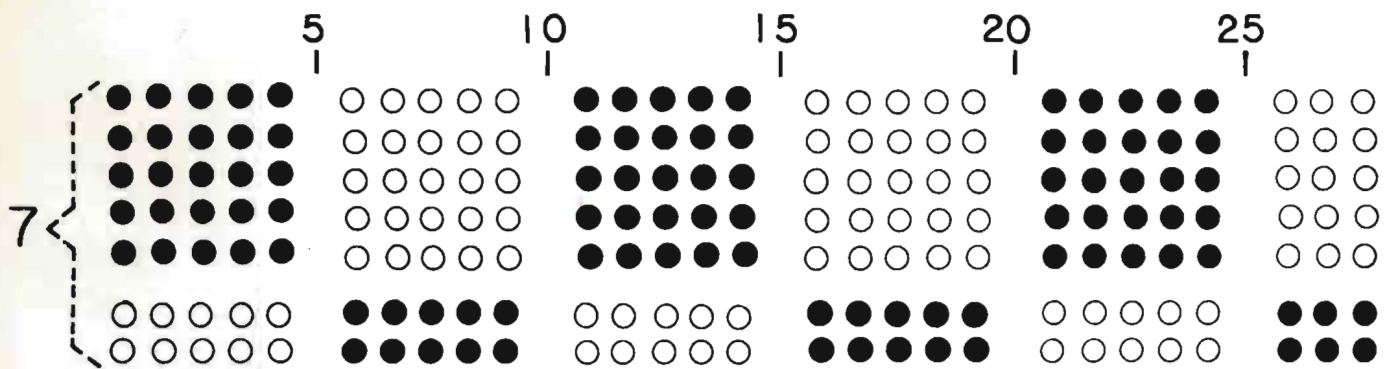
$$\begin{array}{ccc} 2 & 2 & 2 \\ 7 & 7 & 7 \end{array} \text{ (23) H}$$

$$\begin{array}{ccc} 5 & 5 & 5 \\ 6 & 6 & 6 \end{array} \text{ (22)}$$

$$\begin{array}{ccc} 5 & 5 & 5 \\ 6 & 6 & 6 \end{array} \text{ (21) I}$$

$$\begin{array}{ccc} 5 & 5 & 5 \\ 6 & 6 & 6 \end{array} \text{ (17) J}$$

	A	B	C
D	3,3 5,5	50	72
E	236	108	354
F	36	48	59
G	3,3,3 5	118	53
H	2 7,7,7	18	222 7
I	5 6,6,6	190	555 6
J	5,6,6	6,4,5	1,0,18



Please complete the tables

Favor de completar las tablas

$\begin{array}{r} 0 \\ \times 7 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ \times 7 \\ \hline 7 \end{array}$	$\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$	$\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$	$\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$	$\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$	$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$	$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$	$\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$	$\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$	$\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$	$\begin{array}{r} 11 \\ \times 7 \\ \hline 77 \end{array}$	$\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$	$\begin{array}{r} 13 \\ \times 7 \\ \hline 91 \end{array}$
A	B	C	D	E	F	G	H	I	J	A	B		

$\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$	$\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$	$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$	$\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$	$\begin{array}{r} 13 \\ \times 7 \\ \hline 91 \end{array}$
--	---	---	--	--

$\begin{array}{r} 7 \\ \times 1 \\ \hline 7 \end{array}$	$\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array}$	$\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$	$\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$
--	---	---	---

$\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$	$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$	$\begin{array}{r} 9 \\ \times 7 \\ \hline 63 \end{array}$
---	---	---

$\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$	$\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$	$\begin{array}{r} 14 \\ \times 7 \\ \hline 98 \end{array}$	$\begin{array}{r} 15 \\ \times 7 \\ \hline 105 \end{array}$
C	D		

$\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$	$\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$	$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$	$\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$
---	---	---	---

$\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$	$\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$	$\begin{array}{r} 15 \\ \times 7 \\ \hline 105 \end{array}$	$\begin{array}{r} 30 \\ \times 7 \\ \hline 210 \end{array}$
F	F		

$\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$	$\begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array}$	$\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$	$\begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$	$\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$	$\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$	$\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$	$\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$	$\begin{array}{r} 13 \\ \times 7 \\ \hline 91 \end{array}$	$\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array}$	$\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$	$\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$	$\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$	$\begin{array}{r} 20 \\ \times 7 \\ \hline 140 \end{array}$
													G

Domino Puzzles

Rompecabezas de Dóminos

Addition

Suma

$\begin{array}{r} 27 \\ \hline 20 \\ \hline 40 \end{array}$
 $\begin{array}{r} 44 \\ \hline 4 \\ \hline 7 \end{array}$
 $\begin{array}{r} 24 \\ \hline \hline 47 \end{array}$

60 + 11 = 71 B

$\begin{array}{r} 40 \\ \hline 30 \\ \hline 5 \end{array}$
 $\begin{array}{r} 13 \\ \hline 8 \\ \hline 10 \end{array}$
 $\begin{array}{r} 38 \\ \hline \hline 15 \end{array}$

35 + 18 = 53 J

	A	B	C	D
E	31	91	43	42
F	14	49	210	105
G	84	140	28	56
H	63	21	98	37
I	41	70	13	35
J	44	71	77	53

Total 32_A

$\frac{1}{8}$ of 32_A = 4_I

$\frac{1}{4}$ x 32_A = 8_D

$\frac{6}{8}$ of 32_A = 24_C

$\frac{3}{4}$ x 32_A = 24_H

36_E

$\frac{4}{6}$ of 36_E = 24_F

$\frac{2}{6}$ x 36_E = 12_G

$\frac{2}{3}$ x 36_E = 24_E

$\frac{1}{3}$ x 36_E = 12_D

36_G

$\frac{2}{4}$ of 36_G = 18_H

$\frac{1}{4}$ x 36_G = 9_I

$\frac{1}{2}$ x 36_G = 18_B

$\frac{3}{4}$ x 36_G = 27_J

40_A

$\frac{3}{4}$ x 40_A = 30_B

$\frac{2}{4}$ x 40_A = 20_C

$\frac{1}{4}$ x 40_A = 10_D

$\frac{1}{2}$ x 40_A = 20_E

25 5 1
1 1 1 31
 B

36 6 1
0 4 3 27
 J

49 7 1
1 1 0 56
 H

25 5 1
1 2 2 37
 B

36 6 1
1 1 3 45
 C

49 7 1
0 6 3 45
 A

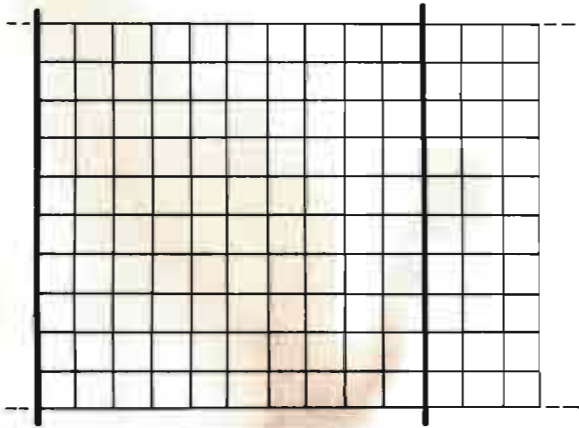
25 5 1
2 2 4 64
 F

36 6 1
2 1 1 79
 A

49 7 1
1 3 0 70
 C

	A	B	C	D
E	36	1,2,2	20	10
F	2,2,4	24	1,2,4	8
G	32	1,1,1	36	12
H	0,6,3	18	24	1,1,0
I	40	30	1,3,0	9
J	2,1,1	27	1,1,3	0,4,3

"HOW MANY?"



Total ...1.3.0...A

$$\begin{array}{r} 100 \\ + 30 \\ \hline 130 \end{array} \text{H}$$

$$\begin{array}{r} 130 \\ - 5 \\ \hline 125 \end{array} \text{E}$$

$$\begin{array}{r} 130 \\ - 105 \\ \hline 25 \end{array} \text{H}$$

$$\begin{array}{r} 130 \\ - 30 \\ \hline 100 \end{array} \text{C}$$

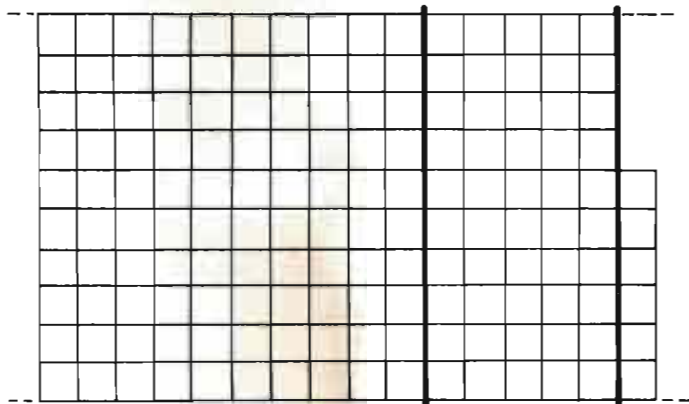
$$\begin{array}{r} 130 \\ - 25 \\ \hline 105 \end{array} \text{F}$$

$$\begin{array}{r} 130 \\ \times 2 \\ \hline 260 \end{array} \text{E}$$

$$\begin{array}{r} 130 \\ - 40 \\ \hline 90 \end{array} \text{D}$$

$$\begin{array}{r} 130 \\ - 45 \\ \hline 85 \end{array} \text{G}$$

$$\begin{array}{r} 130 \\ \times 3 \\ \hline 390 \end{array} \text{B}$$



Total ...1.5.6...C

$$\begin{array}{r} 50 \\ + 56 \\ \hline 106 \end{array} \text{D}$$

$$\begin{array}{r} 156 \\ - 57 \\ \hline 99 \end{array} \text{G}$$

$$\begin{array}{r} 156 \\ + 150 \\ \hline 306 \end{array} \text{B}$$

$$\begin{array}{r} 156 \\ - 7 \\ \hline 149 \end{array} \text{E}$$

$$\begin{array}{r} 156 \\ - 87 \\ \hline 69 \end{array} \text{F}$$

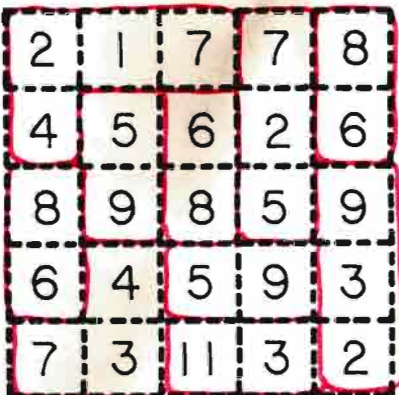
$$\begin{array}{r} 156 \\ + 156 \\ \hline 312 \end{array} \text{B}$$

$$\begin{array}{r} 156 \\ - 27 \\ \hline 129 \end{array} \text{F}$$

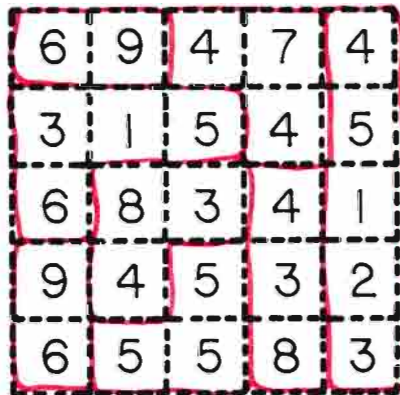
$$\begin{array}{r} 156 \\ - 107 \\ \hline 49 \end{array} \text{G}$$

$$\begin{array}{r} 156 \\ \times 2 \\ \hline 312 \end{array} \text{H}$$

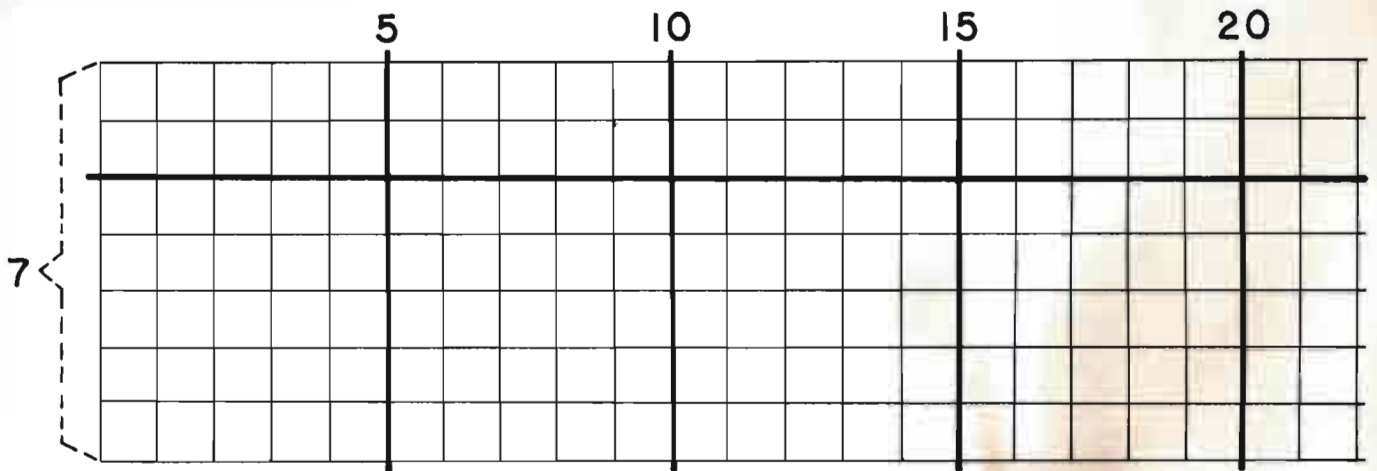
14's



15's



	A	B	C
D	106	90	100
E	125	260	149
F	129	390	105
G	99	85	156
H	130	312	25



$7 \overline{) 7}$	$7 \overline{) 14}$	$7 \overline{) 21}$	$7 \overline{) 28}$	$7 \overline{) 35}$	$7 \overline{) 42}$	$7 \overline{) 49}$	$7 \overline{) 56}$	$7 \overline{) 63}$
A	B	C	D	E	F	G	H	I

$7 \overline{) 21}$	$7 \overline{) 42}$	$7 \overline{) 63}$	$7 \overline{) 84}$
J			

$7 \overline{) 28}$	$7 \overline{) 42}$	$7 \overline{) 70}$	$7 \overline{) 112}$
A	B		

$2 \overline{) 14}$	$3 \overline{) 21}$	$5 \overline{) 35}$	$7 \overline{) 49}$
---------------------	---------------------	---------------------	---------------------

$6 \overline{) 42}$	$8 \overline{) 56}$	$7 \overline{) 49}$	$9 \overline{) 63}$
---------------------	---------------------	---------------------	---------------------

$7 \overline{) 63}$	$7 \overline{) 70}$	$7 \overline{) 133}$	$7 \overline{) 140}$
A	E	F	

$7 \overline{) 210}$	$7 \overline{) 280}$	$7 \overline{) 350}$	$7 \overline{) 420}$
G	H	I	J

$7 \overline{) 21}$	$7 \overline{) 49}$	$7 \overline{) 28}$	$7 \overline{) 42}$	$7 \overline{) 63}$	$7 \overline{) 14}$	$7 \overline{) 35}$	$7 \overline{) 56}$	$7 \overline{) 7}$
---------------------	---------------------	---------------------	---------------------	---------------------	---------------------	---------------------	---------------------	--------------------

$\begin{array}{r} 32 \\ 32 \\ + 32 \\ \hline 96 \end{array}$	$\begin{array}{r} 43 \\ 43 \\ + 43 \\ \hline 129 \end{array}$ ^A	$\begin{array}{r} 25 \\ 25 \\ + 25 \\ \hline 75 \end{array}$	$\begin{array}{r} 19 \\ 19 \\ + 19 \\ \hline 57 \end{array}$ ^F	$\begin{array}{r} 83 \\ 83 \\ + 83 \\ \hline 249 \end{array}$ ^C
$\begin{array}{r} 62 \\ 62 \\ + 62 \\ \hline 186 \end{array}$	$\begin{array}{r} 26 \\ 26 \\ + 26 \\ \hline 78 \end{array}$ ^F	$\begin{array}{r} 73 \\ 73 \\ + 73 \\ \hline 219 \end{array}$	$\begin{array}{r} 37 \\ 37 \\ + 37 \\ \hline 111 \end{array}$ ^J	$\begin{array}{r} 99 \\ 99 \\ + 99 \\ \hline 297 \end{array}$ ^C

	A	B	C	D
E	70	133	21	35
F	78	42	57	140
G	7	112	49	210
H	129	280	249	56
I	350	63	297	28
J	111	14	12	420

Please remember that this is one of several shortcuts to correct answers

Favor de recordar que este es uno de varios caminos cortos para obtener respuestas correctas.

1 24 25 + 26 <hr/> 5	24 25 + 26 <hr/> 75
----------------------------------	------------------------------

A

1 124 124 214 + 334 <hr/> 6	124 124 214 + 334 <hr/> 796
--	---

B

2 146 46 346 + 106 <hr/> 4	12 146 46 346 + 106 <hr/> 44	146 46 346 + 106 <hr/> 644
---	---	--

C

8 493 - 127 <hr/> 6	493 - 127 <hr/> 366
------------------------------	---------------------------

D

21 537 - 198 <hr/> 9	4121 537 - 198 <hr/> 39	537 - 198 <hr/> 339
-------------------------------	----------------------------------	---------------------------

A

11 724 - 366 <hr/> 6	6111 724 - 366 <hr/> 358	724 - 366 <hr/> 358
-------------------------------	-----------------------------------	---------------------------

B

3 218 x 4 <hr/> 2	218 x 4 <hr/> 872
----------------------------	-------------------------

C

1 243 x 3 <hr/> 29	243 x 3 <hr/> 729
-----------------------------	-------------------------

D

2 257 x 3 <hr/> 71	12 257 x 3 <hr/> 71	257 x 3 <hr/> 771
-----------------------------	------------------------------	-------------------------

A

2 2 $\overline{) 512}$	25 2 $\overline{) 512}$	256 2 $\overline{) 512}$
---------------------------	----------------------------	-----------------------------

B

4 3 $\overline{) 1425}$	47 $\overline{) 1425}$	475 3 $\overline{) 1425}$
----------------------------	---------------------------	------------------------------

C

(3x3) →

3 3	9
1 5	5
<hr/>	
	14

2 4	8
3 7	21
<hr/>	
	29

3 2	6
1 9	9
<hr/>	
	15

	A	B	C	D
E	2,2	2,1	3,0	481
F	1,4	358	3,1	366
G	75	256	872	1,2
H	3,1	796	475	729
I	339	3,2	4,1	3,1
J	771	2,3	644	3,3

3 6	18
1 5	5
<hr/>	
	23

2 9	18
2 4	8
<hr/>	
	26

3 3	9
2 8	16
<hr/>	
	25

12 EGGS → 1 DOZ.

doz.	eggs	
1	12	A
2	24	B
4	48	C
$\frac{1}{2}$	6	D
$\frac{1}{3}$	4	G
$\frac{2}{3}$	8	H
$\frac{3}{4}$	9	I

C.....4¢

C	total	
1	4¢	C
10	40¢	D
6	24¢	J
16	64¢	G
22	88¢	I
23	92¢	J
25	\$1.00	A

1 LB = 16 OZ.

LB.	OZ.	
1	16	
2	32	G
$\frac{1}{2}$	8	H
$\frac{1}{4}$	4	C
$\frac{1}{8}$	2	A
$\frac{1}{16}$	1	J
$\frac{3}{8}$	6	D

1 LB.....48¢

LBS.	Total	
1	48¢	
2	96¢	G
$\frac{1}{2}$	24¢	B
$\frac{1}{4}$	12¢	
$1\frac{1}{4}$	60¢	E
$\frac{2}{3}$	32¢	J
$2\frac{1}{2}$	\$1.20	I
10	\$4.80	D

1 M = 100cm

M	cm	
1	100	
5	500	
10	1,000	J
$\frac{1}{2}$	50	D
$\frac{1}{10}$	10	I
$\frac{3}{10}$	30	G
$\frac{5}{10}$ or $\frac{1}{2}$	50	B
$\frac{7}{10}$	70	H

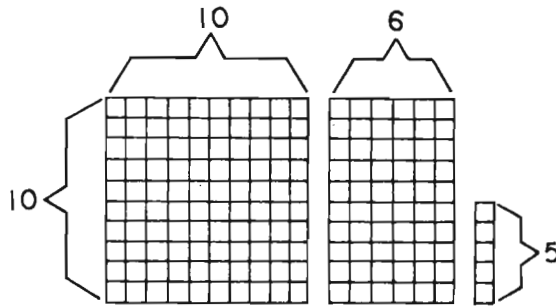
T = 35¢

T	total	
1	35¢	
2	70¢	
4	\$1.40	G
8	\$2.80	H

	A	B	C	D	E	F
G	2	30	4	50	60	64
H	12	$\frac{5}{10}$ or $\frac{1}{2}$	8	40	$\frac{2}{3}$	$\frac{7}{10}$
I	25	24	88	10	120	9
J	1,000	23	32	6	480	1

$$\begin{array}{r} 100 \\ + 65 \\ \hline 165 \end{array}$$

$$\begin{array}{r} 165 \\ + 15 \\ \hline 180 \end{array}$$



$$\begin{array}{r} 165 \\ - 60 \\ \hline 105 \end{array}$$

$$\begin{array}{r} 165 \\ - 7 \\ \hline 158 \end{array}$$

$$\begin{array}{r} 165 \\ + 300 \\ \hline 465 \end{array}$$

$$\begin{array}{r} 165 \\ + 35 \\ \hline 200 \end{array}$$

Total 165

$$\begin{array}{r} 160 \\ - 55 \\ \hline 105 \end{array}$$

$$\begin{array}{r} 160 \\ - 65 \\ \hline 95 \end{array}$$

$$\begin{array}{r} 165 \\ + 165 \\ \hline 330 \end{array}$$

$$\begin{array}{r} 165 \\ \times 2 \\ \hline 330 \end{array}$$

$$\begin{array}{r} 100 \\ \times 2 \\ \hline 200 \end{array}$$

$$\begin{array}{r} 60 \\ \div 3 \\ \hline 20 \end{array}$$

0	1	2	3	4	5	6	7	8	9	10	11	12	13
$\times 7$	$\times 7$	$\times 7$	$\times 7$	$\times 7$	$\times 7$	$\times 7$	$\times 7$	$\times 7$	$\times 7$	$\times 7$	$\times 7$	$\times 7$	$\times 7$
0	7	14	21	28	35	42	49	56	63	70	77	84	91

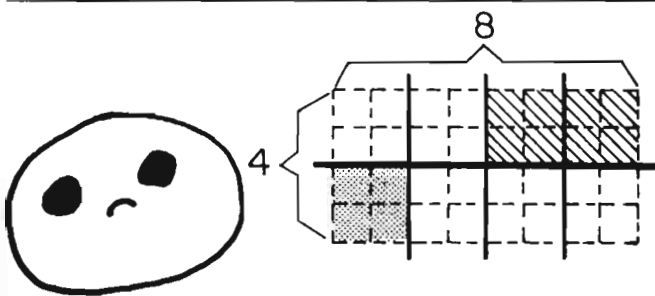
5	10	15
$\times 7$	$\times 7$	$\times 7$
35	70	105

10	20	30
$\times 7$	$\times 7$	$\times 7$
70	140	210

$7 \overline{) 10}$	$7 \overline{) 5}$	$7 \overline{) 15}$	$7 \overline{) 30}$
$7 \overline{) 63}$	$7 \overline{) 70}$	$7 \overline{) 133}$	$7 \overline{) 140}$
$7 \overline{) 35}$	$7 \overline{) 63}$	$7 \overline{) 98}$	$7 \overline{) 112}$

6	20	26
$\times 7$	$\times 7$	$\times 7$
42	140	182

4	8	16
$\times 7$	$\times 7$	$\times 7$
28	56	112



How do you feel?
¿Cómo se siente?

$$\frac{1}{8} \text{ of } 32 = \underline{4}$$

$$\frac{1}{4} \times 32 = \underline{8}$$

$$\frac{6}{8} \times 32 = \underline{24}$$

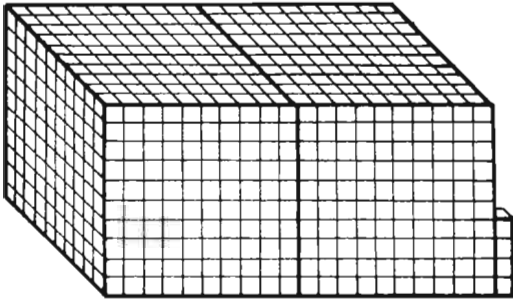
$$\frac{3}{4} \times 32 = \underline{24}$$

1 da. = 24 hr.

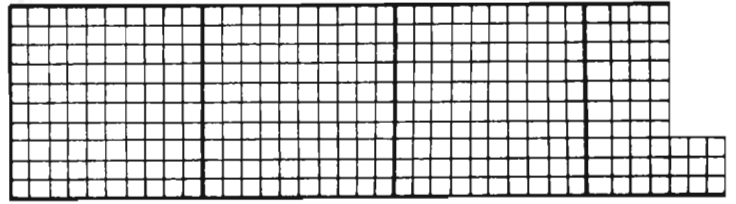
1 LB. → 32¢

da.	hr.
1	24
$\frac{1}{2}$	12
$3\frac{1}{2}$	84
$\frac{1}{6}$	4
$1\frac{1}{6}$	28

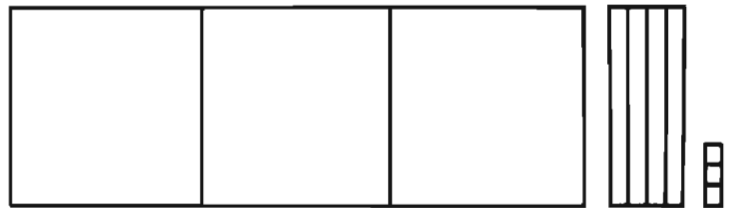
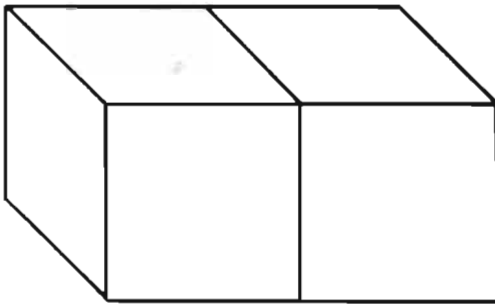
LBS.	COST
1	32¢
3	96¢
$\frac{1}{2}$	16¢
$\frac{1}{4}$	8¢
$\frac{1}{8}$	4¢



A 2,004



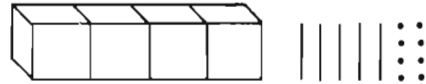
B 349



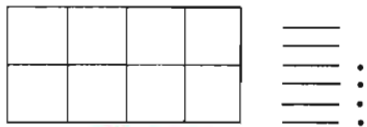
C 2,343



A 2,343



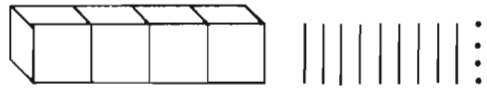
B 4,058



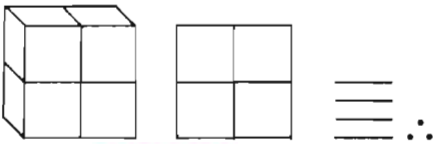
C 864



A 435



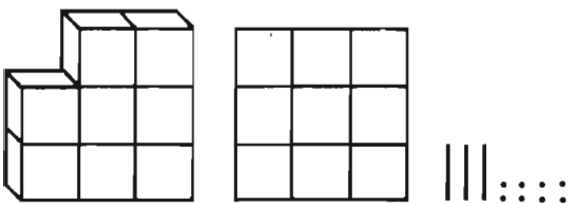
B 4,094



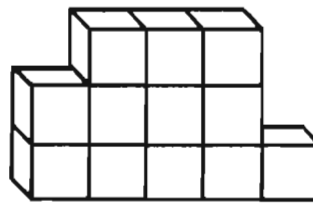
C 4,443



A 458



B 8,938

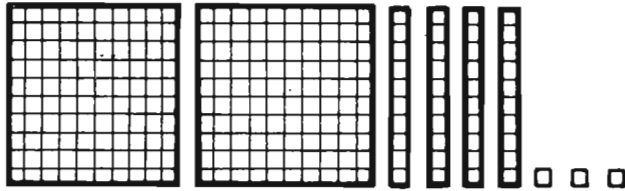


C 12,000

A	B	C
435	4,058	12,000
775	8,938	864
2,004	396	1,725
915	4,094	2,343
2,343	944	4,443
458	349	5,000

"HOW MANY?"

"¿CUANTOS?"



Total 243_A

$$\begin{array}{r} 143 \\ +143 \\ \hline 286 \end{array} \text{B}$$

$$\begin{array}{r} 243 \\ + 7 \\ \hline 250 \end{array} \text{C}$$

$$\begin{array}{r} 243 \\ + 56 \\ \hline 299 \end{array} \text{D}$$

$$\begin{array}{r} 243 \\ + 57 \\ \hline 300 \end{array} \text{H}$$

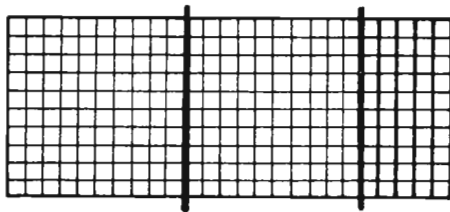
$$\begin{array}{r} 243 \\ +190 \\ \hline 433 \end{array} \text{I}$$

$$\begin{array}{r} 243 \\ +597 \\ \hline 840 \end{array} \text{J}$$

$$\begin{array}{r} 243 \\ +243 \\ \hline 486 \end{array} \text{A}$$

$$\begin{array}{r} 486 \\ +243 \\ \hline 729 \end{array} \text{B}$$

$$\begin{array}{r} 243 \\ \times 3 \\ \hline 729 \end{array} \text{H}$$



250_F

$$\begin{array}{r} 100 \\ +150 \\ \hline 250 \end{array} \text{C}$$

$$\begin{array}{r} 250 \\ + 50 \\ \hline 300 \end{array} \text{C}$$

$$\begin{array}{r} 250 \\ + 57 \\ \hline 307 \end{array} \text{I}$$

$$\begin{array}{r} 258 \\ +107 \\ \hline 365 \end{array} \text{A}$$

$$\begin{array}{r} 258 \\ +157 \\ \hline 415 \end{array} \text{B}$$

$$\begin{array}{r} 250 \\ +750 \\ \hline 1,000 \end{array} \text{C}$$

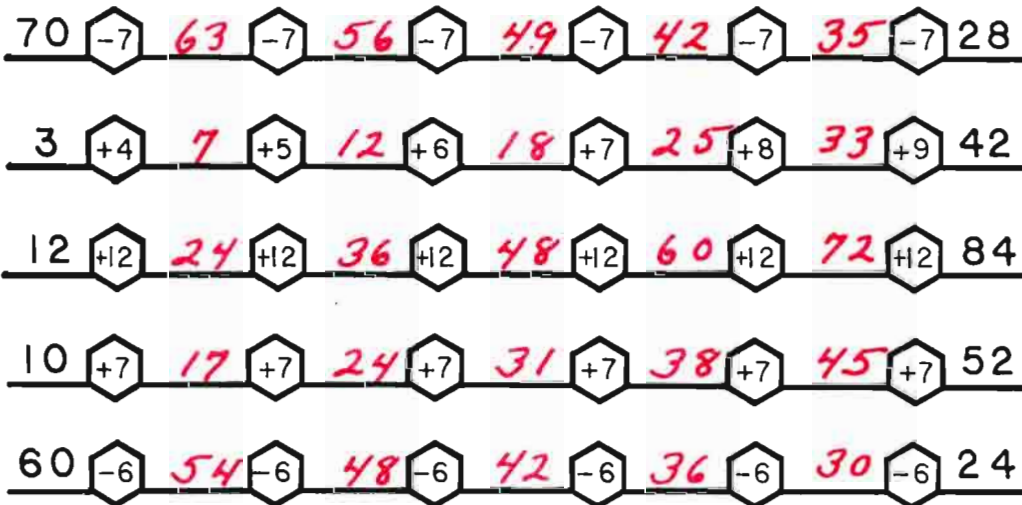
$$\begin{array}{r} 250 \\ \times 2 \\ \hline 500 \end{array} \text{J}$$

$$\begin{array}{r} 250 \\ \times 3 \\ \hline 750 \end{array} \text{B}$$

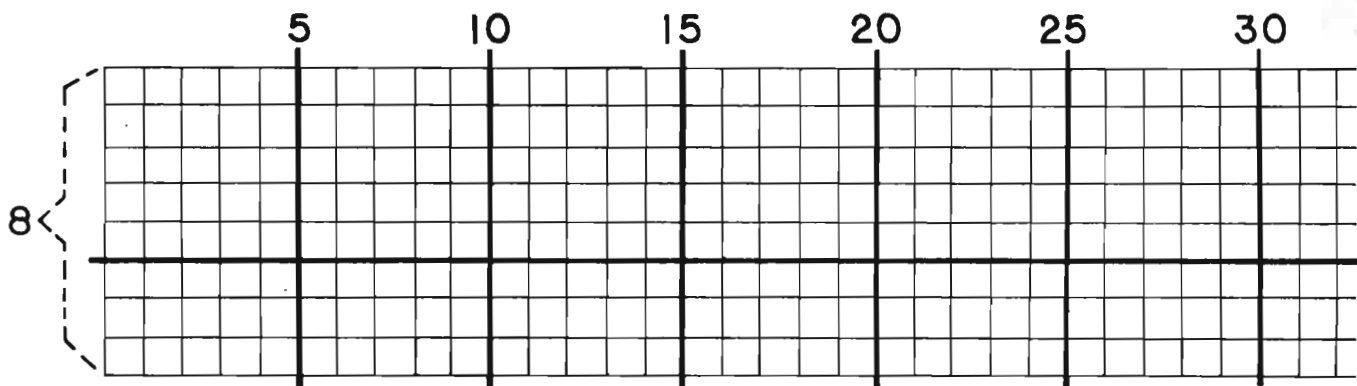
$$\begin{array}{r} 250 \\ \times 4 \\ \hline 1,000 \end{array} \text{E}$$

Chain Reactions

Reacción en Cadena



	A	B	C
D	365	291	299
E	243	750	1,000
F	486	415	250
G	418	286	512
H	128	729	300
I	433	900	307
J	500	840	800



Please complete the tables

Favor de completar las tablas

0	1	2	3	4	5	6	7	8	9	10	11	12	13
$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 8$
0	8	16	24	32	40	48	56	64	72	80	88	96	104
A	B	C	D	E	F	G	H	I	J	K	A	B	C

2	4	8	16	32
$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 8$
16	32	64	128	256
E	H			

5	10	15	20
$\times 8$	$\times 8$	$\times 8$	$\times 8$
40	80	120	160
I	J		

8	8	8
$\times 7$	$\times 8$	$\times 9$
56	64	72

13	14	15	16
$\times 8$	$\times 8$	$\times 8$	$\times 8$
104	112	120	128
C	D		

10	20	30	40
$\times 8$	$\times 8$	$\times 8$	$\times 8$
80	160	240	320
D	E	F	

50	60	70	90
$\times 8$	$\times 8$	$\times 8$	$\times 8$
400	480	560	720
H	D	A	K

7	10	17	8	8	8	5	20	25	8	30	38	11	22
$\times 8$	$\times 8$	$\times 8$	$\times 4$	$\times 5$	$\times 9$	$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 8$
56	80	136	32	40	72	40	160	200	64	240	304	88	176
A						J	D		C	A		K	

Please extend the patterns as indicated

(Favor de extender las muestras.)

2 . 7 . 12 . 17 . 22 . 27 . 32 . 37 . 42 . 47 .

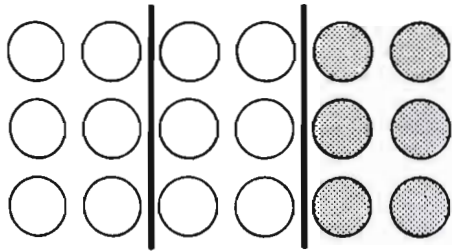
6 . 9 . 12 . 15 . 18 . 21 . 24 . 27 . 30 . 33 .

52 . 48 . 44 . 40 . 36 . 32 . 28 . 24 . 20 . 16 .

104 . 96 . 88 . 80 . 72 . 64 . 56 . 48 . 40 . 32 .

8 . 16 . 24 . 32 . 40 . 48 . 56 . 64 . 72 . 80 .

	A	B	C	D
E	304	32	240	128
F	88	320	16	40
G	48	8	104	480
H	400	256	56	200
I	560	64	120	24
J	136	96	72	160
K	0	176	80	720



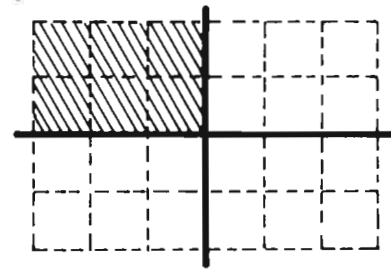
Total 18
A

$$\frac{1}{3} \text{ of } \frac{18}{A} = \frac{6}{B}$$

$$\frac{2}{3} \text{ of } \frac{18}{A} = \frac{12}{C}$$

$$\frac{3}{3} \text{ of } \frac{18}{A} = \frac{18}{J}$$

$$\frac{1}{3} + \frac{1}{3} = \frac{2}{3D}$$



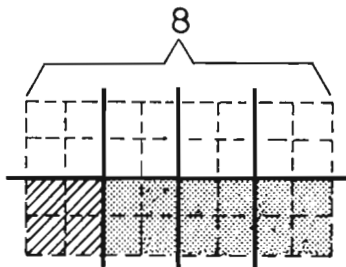
24
B

$$\frac{1}{4} \text{ of } \frac{24}{B} = \frac{6}{F}$$

$$\frac{3}{4} \times \frac{24}{B} = \frac{18}{A}$$

$$\frac{1}{2} \times \frac{24}{B} = \frac{12}{H}$$

$$\frac{1}{2} + \frac{1}{4} = \frac{3}{4D}$$



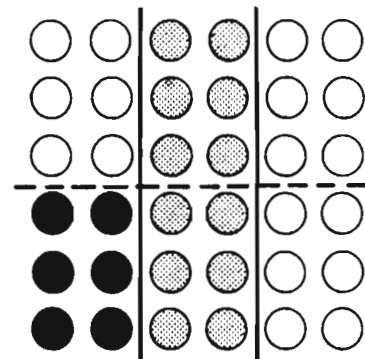
32
G

$$\frac{1}{8} \text{ of } \frac{32}{G} = \frac{4}{E}$$

$$\frac{3}{8} \times \frac{32}{G} = \frac{12}{C}$$

$$\frac{1}{2} \times \frac{32}{G} = \frac{16}{B}$$

$$\frac{1}{8} + \frac{3}{8} = \frac{4,1}{8,2D}$$



36
C

$$\frac{1}{6} \times \frac{36}{C} = \frac{6}{B}$$

$$\frac{1}{3} \times \frac{36}{C} = \frac{12}{H}$$

$$\frac{1}{2} \times \frac{36}{C} = \frac{18}{A}$$

$$\frac{1}{6} + \frac{1}{3} = \frac{3,1}{6,2D}$$

36	6	1
1	2	4

52 A

36	6	1
0	5	5

35 B

36	6	1
1	4	0

60 C

49	7	1
0	6	3

45 A

49	7	1
1	3	0

70 B

49	7	1
2	4	2

128 C

64	8	1
1	2	0

80 A

64	8	1
0	7	3

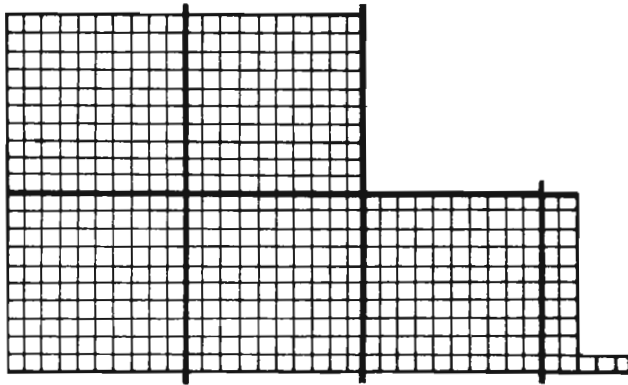
59 B

64	8	1
1	4	4

100 C

	A	B	C	D
E	2,3	0,7,3	4	$\frac{3}{4}$
F	52	6	24,2	$\frac{5}{6}$
G	32	0,5,5	36	$\frac{2}{3}$
H	0,6,3	16	12	$\frac{1}{4}$
I	1,2,0	24	14,4	$\frac{1}{2}, \frac{4}{8}$
J	18	1,3,0	14,4	$\frac{1}{2}, \frac{3}{6}$

"HOW MANY?"



Total 523 A

"¿CUANTOS?"

$$\begin{array}{r} 630 \\ - 7 \\ \hline 623 \end{array}$$
 B

$$\begin{array}{r} 523 \\ - 24 \\ \hline 499 \end{array}$$
 C

$$\begin{array}{r} 523 \\ - 34 \\ \hline 489 \end{array}$$
 A

$$\begin{array}{r} 523 \\ - 107 \\ \hline 416 \end{array}$$
 B

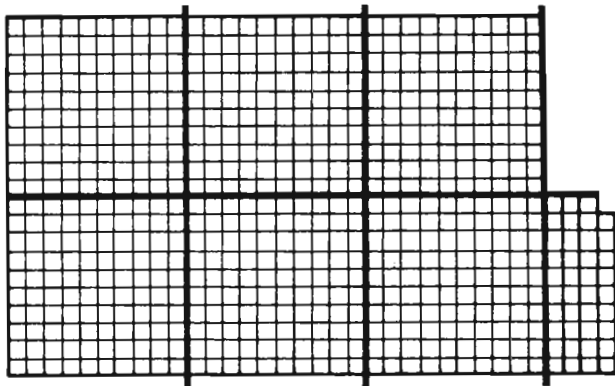
$$\begin{array}{r} 523 \\ - 227 \\ \hline 296 \end{array}$$
 C

$$\begin{array}{r} 523 \\ - 184 \\ \hline 339 \end{array}$$
 A

$$\begin{array}{r} 523 \\ - 416 \\ \hline 107 \end{array}$$

$$\begin{array}{r} 523 \\ - 296 \\ \hline 227 \end{array}$$
 C

$$\begin{array}{r} 523 \\ - 339 \\ \hline 184 \end{array}$$
 A



639 D

$$\begin{array}{r} 640 \\ - 21 \\ \hline 619 \end{array}$$
 E

$$\begin{array}{r} 639 \\ - 40 \\ \hline 599 \end{array}$$

$$\begin{array}{r} 639 \\ - 447 \\ \hline 192 \end{array}$$
 G

$$\begin{array}{r} 439 \\ - 150 \\ \hline 289 \end{array}$$
 A

$$\begin{array}{r} 929 \\ - 238 \\ \hline 691 \end{array}$$
 B

$$\begin{array}{r} 3639 \\ - 740 \\ \hline 2899 \end{array}$$
 C

$$\begin{array}{r} 639 \\ + 639 \\ \hline 1,278 \end{array}$$

$$\begin{array}{r} 639 \\ \times 2 \\ \hline 1,278 \end{array}$$
 I

$$\begin{array}{r} 639 \\ \div 3 \\ \hline 213 \end{array}$$
 J

Multiplication
--- and ---
Division

Multiplicar
--- y ---
Dividir

$$\begin{array}{r} 12 \times 2 = 24 \\ 24 \div 2 = 12 \end{array}$$

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

$$\begin{array}{r} 6 \times 3 = 18 \\ 18 \div 2 = 9 \end{array}$$

$$\begin{array}{r} 8 \times 4 = 32 \\ 32 \div 2 = 16 \end{array}$$

$$\begin{array}{r} 12 \times 3 = 36 \\ 36 \div 4 = 9 \end{array}$$

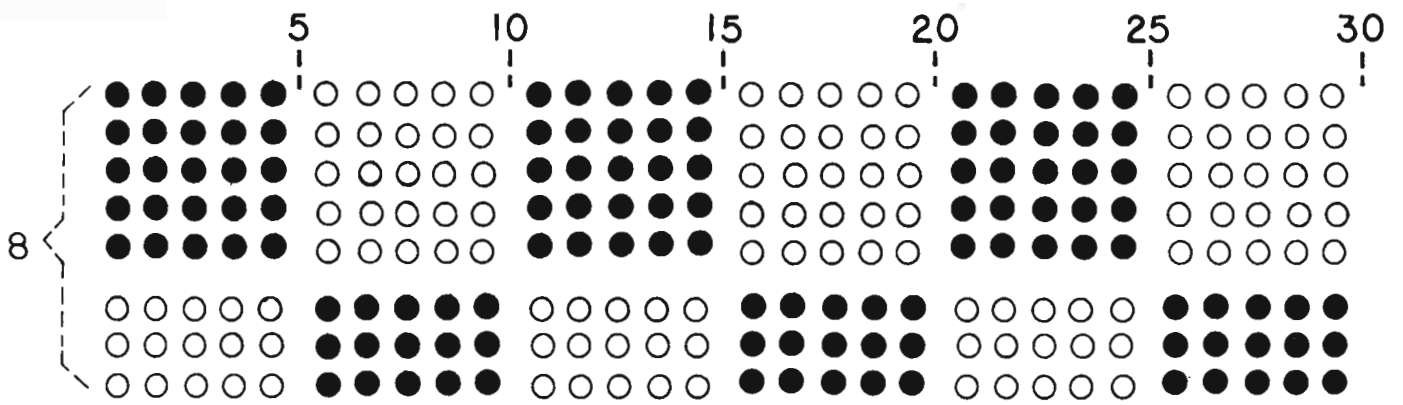
$$\begin{array}{r} 10 \times 5 = 50 \\ 50 \div 2 = 25 \end{array}$$

$$\begin{array}{r} 15 \times 3 = 45 \\ 45 \div 5 = 9 \end{array}$$

$$\begin{array}{r} 14 \times 2 = 28 \\ 28 \div 7 = 4 \end{array}$$

$$\begin{array}{r} 20 \times 4 = 80 \\ 80 \div 5 = 16 \end{array}$$
 B

	A	B	C
D	339	204	639
E	619	623	296
F	289	416	399
G	523	192	227
H	184	691	499
I	1,278	84	105
J	489	213	2,899



$8 \overline{) 8}$	$8 \overline{) 16}$	$8 \overline{) 24}$	$8 \overline{) 32}$	$8 \overline{) 40}$	$8 \overline{) 48}$	$8 \overline{) 56}$	$8 \overline{) 64}$	$8 \overline{) 72}$
A	B	C	D	E	F	G	H	I

$8 \overline{) 0}$	$8 \overline{) 40}$	$8 \overline{) 80}$	$8 \overline{) 120}$
--------------------	---------------------	---------------------	----------------------

$8 \overline{) 24}$	$8 \overline{) 48}$	$8 \overline{) 72}$	$8 \overline{) 96}$
---------------------	---------------------	---------------------	---------------------

$8 \overline{) 10}$	$8 \overline{) 20}$	$8 \overline{) 30}$	$8 \overline{) 50}$
A	E	A	

$8 \overline{) 40}$	$8 \overline{) 3}$	$8 \overline{) 43}$	$8 \overline{) 86}$
E	F	A	

$8 \overline{) 20}$	$8 \overline{) 9}$	$8 \overline{) 29}$	$8 \overline{) 58}$
D	J		

$8 \overline{) 8}$	$9 \overline{) 72}$	$7 \overline{) 56}$	$6 \overline{) 48}$
--------------------	---------------------	---------------------	---------------------

$8 \overline{) 10}$	$8 \overline{) 7}$	$8 \overline{) 17}$	$9 \overline{) 8}$	$7 \overline{) 8}$	$6 \overline{) 8}$	$8 \overline{) 20}$	$8 \overline{) 23}$	$8 \overline{) 46}$
A			C		K			

$$\begin{array}{r} 2 \mid 3 \\ 2 \mid 3 \\ 2 \mid 3 \\ 2 \mid 3 \\ + 2 \mid 3 \\ \hline 10 \mid 65 \end{array} \text{G}$$

$$\begin{array}{r} 3 \mid 2 \mid 1 \\ 3 \mid 2 \mid 1 \\ 3 \mid 2 \mid 1 \\ 3 \mid 2 \mid 1 \\ + 3 \mid 2 \mid 1 \\ \hline 16 \mid 05 \end{array} \text{C}$$

$$\begin{array}{r} 1 \mid 2 \mid 3 \\ 1 \mid 2 \mid 3 \\ 1 \mid 2 \mid 3 \\ 1 \mid 2 \mid 3 \\ + 1 \mid 2 \mid 3 \\ \hline 6 \mid 15 \end{array} \text{H}$$

$$\begin{array}{r} 2 \mid 0 \mid 3 \\ 2 \mid 0 \mid 3 \\ 2 \mid 0 \mid 3 \\ 2 \mid 0 \mid 3 \\ + 2 \mid 0 \mid 3 \\ \hline 10 \mid 15 \end{array} \text{E}$$

	A	B	C	D
E	120	30	1015	40
F	120	48	24	43
G	8	96	1,065	56
H	17	16	64	615
I	20	72	1,605	32
J	86	58	0	232
K	50	80	23	368

Please remember that this is one of several shortcuts to correct answers.

Favor de recordar que este es uno de varios caminos cortos para obtener respuestas correctas.

$$\begin{array}{r} 2 \\ |6 \\ |3 \\ |4 \\ + 27 \\ \hline 0 \end{array} \quad \begin{array}{r} |6 \\ |3 \\ |4 \\ + 17 \\ \hline 60 \end{array}$$

A

$$\begin{array}{r} 2 \\ |52 \\ |52 \\ |52 \\ + 152 \\ \hline 08 \end{array} \quad \begin{array}{r} |52 \\ |52 \\ |52 \\ + 152 \\ \hline 608 \end{array}$$

B

$$\begin{array}{r} 2 \\ 437 \\ 437 \\ 437 \\ + 437 \\ \hline 8 \end{array} \quad \begin{array}{r} |2 \\ 437 \\ 437 \\ 437 \\ + 437 \\ \hline 8 \end{array} \quad \begin{array}{r} 437 \\ 437 \\ 437 \\ + 437 \\ \hline 1748 \end{array}$$

C

$$\begin{array}{r} 3 \\ 475 \\ - 192 \\ \hline \end{array} \quad \begin{array}{r} 475 \\ - 192 \\ \hline 283 \end{array}$$

D

$$\begin{array}{r} 6 \\ 475 \\ - 198 \\ \hline \end{array} \quad \begin{array}{r} 36 \\ 475 \\ - 198 \\ \hline \end{array} \quad \begin{array}{r} 475 \\ - 198 \\ \hline 277 \end{array}$$

E

$$\begin{array}{r} 4 \\ 1253 \\ - 789 \\ \hline \end{array} \quad \begin{array}{r} |4 \\ 1253 \\ - 789 \\ \hline \end{array} \quad \begin{array}{r} 1253 \\ - 789 \\ \hline 464 \end{array}$$

F

$$\begin{array}{r} 2 \\ 431 \\ \times 9 \\ \hline \end{array} \quad \begin{array}{r} 431 \\ \times 9 \\ \hline 3879 \end{array}$$

G

$$\begin{array}{r} 607 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 607 \\ \times 5 \\ \hline 3035 \end{array}$$

H

$$\begin{array}{r} 4 \\ 138 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} |4 \\ 138 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 138 \\ \times 5 \\ \hline 690 \end{array}$$

I

$$\begin{array}{r} 5 \\ 6 \overline{)3276} \end{array} \quad \begin{array}{r} 54 \\ 6 \overline{)3276} \end{array} \quad \begin{array}{r} 546 \\ 6 \overline{)3276} \end{array}$$

J

$$\begin{array}{r} 2 \\ 9 \overline{)2088} \end{array} \quad \begin{array}{r} 2 \\ 9 \overline{)2088} \end{array} \quad \begin{array}{r} 232 \\ 9 \overline{)2088} \end{array}$$

A

Sumar y Restar Addition and Subtraction

$$\begin{array}{r} (9+7) \\ \swarrow \\ \boxed{9} - \frac{16}{2} \end{array} \quad \begin{array}{r} \circled{7} \end{array}$$

$$\begin{array}{r} \boxed{11} - \frac{19}{3} \end{array} \quad \begin{array}{r} \circled{8} \end{array}$$

$$\begin{array}{r} \boxed{20} - \frac{33}{7} \end{array} \quad \begin{array}{r} \circled{13} \end{array}$$

$$\begin{array}{r} (9-7) \\ \swarrow \\ \boxed{19} - \frac{27}{11} \end{array} \quad \begin{array}{r} \circled{8} \end{array}$$

$$\begin{array}{r} \boxed{17} - \frac{31}{3} \end{array} \quad \begin{array}{r} \circled{14} \end{array}$$

$$\begin{array}{r} \boxed{26} - \frac{40}{12} \end{array} \quad \begin{array}{r} \circled{14} \end{array}$$

$$\begin{array}{r} \boxed{27} - \frac{51}{3} \end{array} \quad \begin{array}{r} \circled{24} \end{array}$$

$$\begin{array}{r} \boxed{32} - \frac{51}{13} \end{array} \quad \begin{array}{r} \circled{19} \end{array}$$

$$\begin{array}{r} \boxed{39} - \frac{51}{27} \end{array} \quad \begin{array}{r} \circled{12} \end{array}$$

	A	B	C	D
E	40	952	277	125
F	60	1,371	413	464
G	839	3,879	1,748	53
H	602	608	984	3,035
I	26	690	75	283
J	232	18	546	30

1 HOUR = 60 minutes

HOURS	minutes	
1	60	A
2	120	B
3	180	C
$\frac{1}{2}$	30	D
$\frac{3}{4}$	45	E
$1\frac{1}{2}$	90	F
$2\frac{1}{3}$	140	G

72¢ a yard

yards	price	
1	72¢	H
2	\$1.44	I
4	\$2.88	J
$\frac{1}{2}$	36¢	K
$\frac{1}{4}$	18¢	A
$\frac{3}{4}$	54¢	B
$1\frac{1}{2}$	\$1.08	C

$\frac{1}{2}$ OFF

regular	sale	
50¢	25¢	D
\$1.00	50¢	E
42¢	21¢	F
\$3.00	\$1.50	G
90¢	45¢	E
\$1.50	75¢	E
\$17.00	\$8.50	F

\$1 = 10 (10¢)

DOLLARS	DIMES	
1	10	G
2	20	C
5	50	H
$\frac{1}{2}$	5	E
$\frac{1}{5}$	2	J
$\frac{1}{10}$	1	A
$1\frac{1}{2}$	15	G
$3\frac{2}{5}$	34	D

120 miles/hour

HOURS	miles	
1	120	
2	240	
$\frac{1}{2}$	60	A
$3\frac{1}{2}$	420	
$\frac{1}{4}$	30	D
$2\frac{1}{4}$	270	B
$1\frac{3}{4}$	210	C
$\frac{1}{3}$	40	A

1 GALLON
4 QUARTS

GALS.	QTS.	
2	8	
$\frac{2}{4}$ or $\frac{1}{2}$	2	E
$\frac{1}{4}$	1	A
$\frac{1}{8}$	$\frac{1}{2}$	G

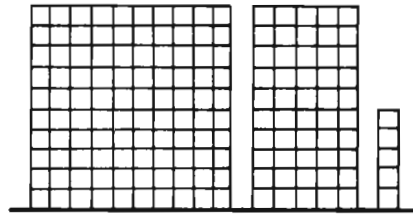
	A	B	C	D	E	F
G	$\frac{1}{8}$	$1\frac{1}{2}$	180	10	1.50	140
H	$\frac{1}{3}$	72	210	30	50	17.00
I	60	270	1.08	1.44	$\frac{1}{2}$	90
J	$\frac{1}{4}$	120	2	34	45	4
K	1	54	36	25	5	42

Addition
Sumar

$$\begin{array}{r} 155 \\ + 15 \\ \hline 170 \end{array} \quad \begin{array}{r} 155 \\ + 45 \\ \hline 200 \end{array}$$

$$\begin{array}{r} 155 \\ + 87 \\ \hline 242 \end{array} \quad \begin{array}{r} 355 \\ + 355 \\ \hline 710 \end{array}$$

$$\begin{array}{r} 155 \\ \times 2 \\ \hline 310 \end{array} \quad \begin{array}{r} 355 \\ \times 2 \\ \hline 710 \end{array}$$



Total 155

Subtraction
Restar

$$\begin{array}{r} 155 \\ - 9 \\ \hline 146 \end{array} \quad \begin{array}{r} 155 \\ - 59 \\ \hline 96 \end{array}$$

$$\begin{array}{r} 150 \\ - 80 \\ \hline 70 \end{array} \quad \begin{array}{r} 150 \\ - 86 \\ \hline 64 \end{array}$$

$$\begin{array}{r} 647 \\ - 155 \\ \hline 492 \end{array} \quad \begin{array}{r} 626 \\ - 155 \\ \hline 471 \end{array}$$

0	1	2	3	4	5	6	7	8	9	10	11	12	13
$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 8$
0	8	16	24	32	40	48	56	64	72	80	88	96	104

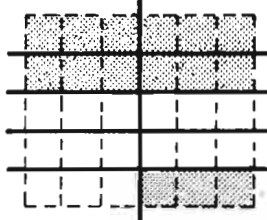
7	10	17
$\times 8$	$\times 8$	$\times 8$
56	80	136

8	16	32
$\times 8$	$\times 8$	$\times 8$
64	128	256

20	30	40
$\times 8$	$\times 8$	$\times 8$
160	240	320

30	9	39
$\times 8$	$\times 8$	$\times 8$
240	72	312

$8 \overline{)160}$ 20	$8 \overline{)40}$ 5	$8 \overline{)200}$ 25	$8 \overline{)400}$ 50
$8 \overline{)56}$ 7	$8 \overline{)112}$ 14	$8 \overline{)224}$ 28	$8 \overline{)448}$ 56
$8 \overline{)320}$ 40	$8 \overline{)24}$ 3	$8 \overline{)344}$ 43	$8 \overline{)688}$ 86



30
Total

How do you feel?
¿Cómo se siente?

$$\frac{1}{10} \text{ of } 30 = \underline{3}$$

$$\frac{2}{5} \times 30 = \underline{12}$$

$$\frac{1}{2} \times 30 = \underline{15}$$

$$\frac{2}{5} + \frac{1}{10} = \underline{\frac{4}{10} + \frac{1}{10} = \frac{5}{10}}$$

1 METER
= 10 DECIMETERS

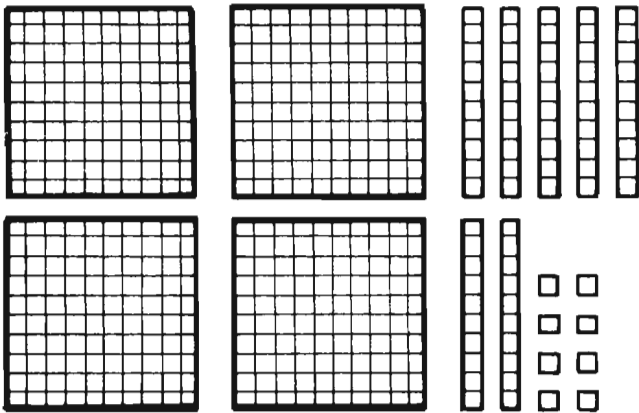
$\frac{1}{2}$ OFF

M	dm
1	10
10	100
$\frac{1}{2}$	5
$\frac{1}{10}$	1
$1\frac{3}{10}$	13

P	$\frac{1}{2}$ P
30¢	15¢
\$1.50	75¢
\$5.00	\$2.50
72¢	36¢
\$14.50	\$7.25

"HOW MANY?"

"¿CUANTOS?"



Total 478_A

$$\begin{array}{r} 478 \\ + 2 \\ \hline 480 \end{array}$$

$$\begin{array}{r} 478 \\ + 30 \\ \hline 508 \end{array}$$

$$\begin{array}{r} 475 \\ + 130 \\ \hline 605 \end{array}$$

$$\begin{array}{r} 478 \\ - 77 \\ \hline 401 \end{array}$$

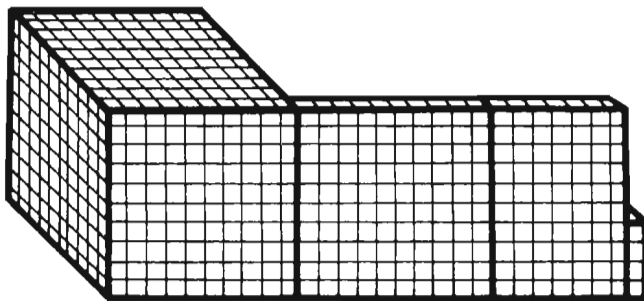
$$\begin{array}{r} 478 \\ - 140 \\ \hline 338 \end{array}$$

$$\begin{array}{r} 478 \\ - 9 \\ \hline 469 \end{array}$$

$$\begin{array}{r} 245 \\ + 233 \\ \hline 478 \end{array}$$

$$\begin{array}{r} 245 \\ + 7 \\ \hline 252 \end{array}$$

$$\begin{array}{r} 248 \\ + 60 \\ \hline 308 \end{array}$$



Total 6,174_A

$$\begin{array}{r} 174 \\ + 8 \\ \hline 182 \end{array}$$

$$\begin{array}{r} 174 \\ + 18 \\ \hline 192 \end{array}$$

$$\begin{array}{r} 174 \\ + 28 \\ \hline 202 \end{array}$$

$$\begin{array}{r} 1,174 \\ + 1,000 \\ \hline 2,174 \end{array}$$

$$\begin{array}{r} 1,174 \\ + 1,315 \\ \hline 2,489 \end{array}$$

$$\begin{array}{r} 1,174 \\ + 900 \\ \hline 2,074 \end{array}$$

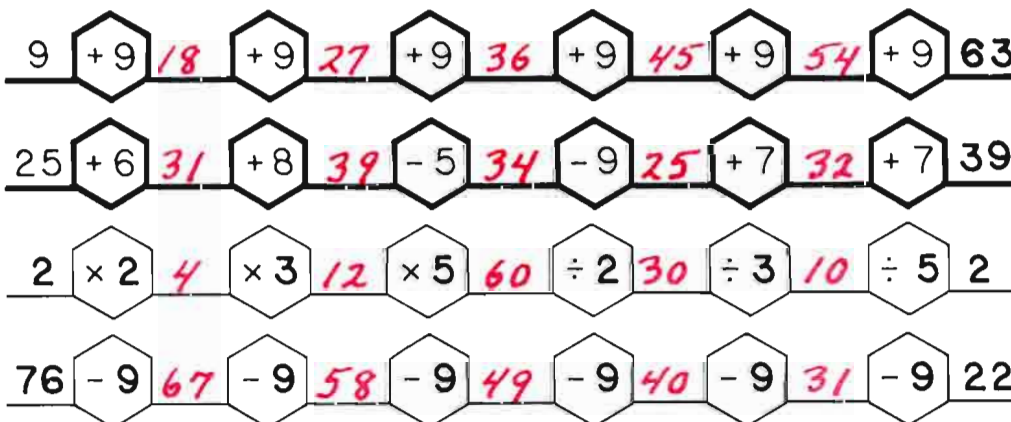
$$\begin{array}{r} 1,174 \\ - 174 \\ \hline 1,000 \end{array}$$

$$\begin{array}{r} 1,174 \\ - 175 \\ \hline 999 \end{array}$$

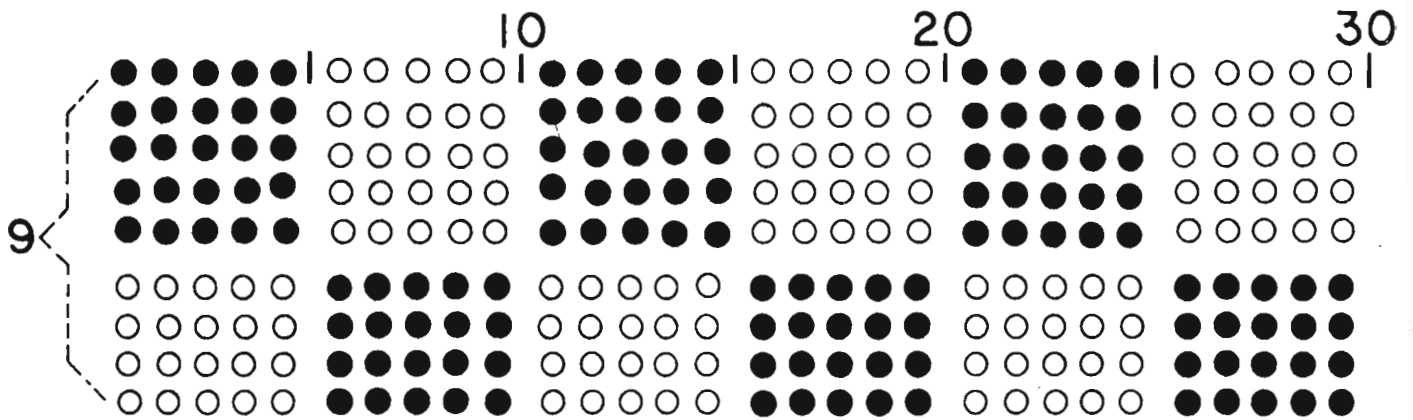
$$\begin{array}{r} 1,174 \\ - 1,008 \\ \hline 166 \end{array}$$

Chain Reactions

Reacción en Cadena



	A	B	C
D	605	202	478
E	252	480	401
F	1,174	338	308
G	984	469	508
H	1,000	182	166
I	478	2,489	192
J	2,174	999	2,074



$\begin{array}{r} 0 \\ \times 9 \\ \hline 0 \end{array}$	$\begin{array}{r} 1 \\ \times 9 \\ \hline 9 \end{array}$	$\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$	$\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$	$\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$	$\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$	$\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$	$\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$	$\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$	$\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$	$\begin{array}{r} 10 \\ \times 9 \\ \hline 90 \end{array}$	$\begin{array}{r} 11 \\ \times 9 \\ \hline 99 \end{array}$	$\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$	$\begin{array}{r} 13 \\ \times 9 \\ \hline 117 \end{array}$
A	B	C	D	E	F	G	H	I	J	K	A	B	C

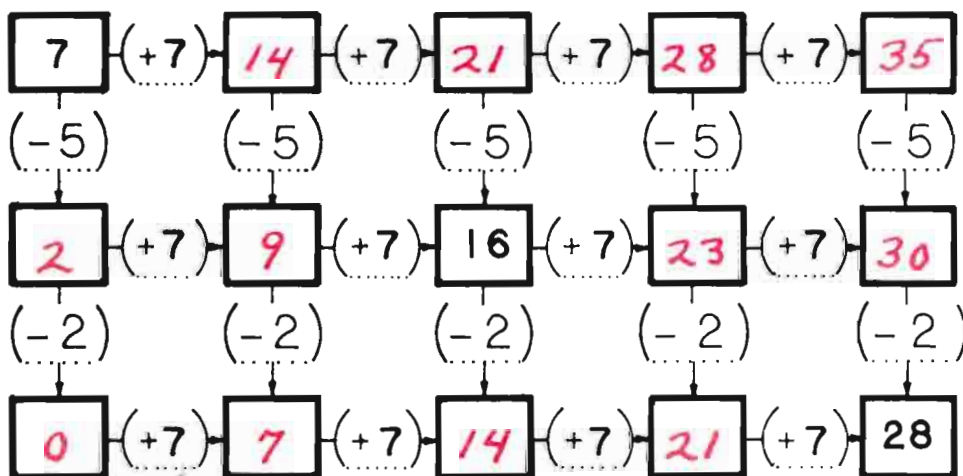
$\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$	$\begin{array}{r} 10 \\ \times 9 \\ \hline 90 \end{array}$	$\begin{array}{r} 15 \\ \times 9 \\ \hline 135 \end{array}$	$\begin{array}{r} 30 \\ \times 9 \\ \hline 270 \end{array}$	$\begin{array}{r} 60 \\ \times 9 \\ \hline 540 \end{array}$	$\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$	$\begin{array}{r} 20 \\ \times 9 \\ \hline 180 \end{array}$	$\begin{array}{r} 24 \\ \times 9 \\ \hline 216 \end{array}$	$\begin{array}{r} 48 \\ \times 9 \\ \hline 432 \end{array}$	$\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$	$\begin{array}{r} 40 \\ \times 9 \\ \hline 360 \end{array}$	$\begin{array}{r} 49 \\ \times 9 \\ \hline 441 \end{array}$
D	E	F	G	A	B	C					

$\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$	$\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$	$\begin{array}{r} 17 \\ \times 9 \\ \hline 153 \end{array}$	$\begin{array}{r} 34 \\ \times 9 \\ \hline 306 \end{array}$	$\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$	$\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$	$\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$	$\begin{array}{r} 24 \\ \times 9 \\ \hline 216 \end{array}$	$\begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array}$	$\begin{array}{r} 10 \\ \times 9 \\ \hline 90 \end{array}$	$\begin{array}{r} 18 \\ \times 9 \\ \hline 162 \end{array}$	$\begin{array}{r} 30 \\ \times 9 \\ \hline 270 \end{array}$
A	B	C	D								

$\begin{array}{r} 14 \\ \times 9 \\ \hline 126 \end{array}$	$\begin{array}{r} 15 \\ \times 9 \\ \hline 135 \end{array}$	$\begin{array}{r} 16 \\ \times 9 \\ \hline 144 \end{array}$	$\begin{array}{r} 17 \\ \times 9 \\ \hline 153 \end{array}$	$\begin{array}{r} 50 \\ \times 9 \\ \hline 450 \end{array}$	$\begin{array}{r} 70 \\ \times 9 \\ \hline 630 \end{array}$	$\begin{array}{r} 80 \\ \times 9 \\ \hline 720 \end{array}$	$\begin{array}{r} 90 \\ \times 9 \\ \hline 810 \end{array}$	$\begin{array}{r} 100 \\ \times 9 \\ \hline 900 \end{array}$	$\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$	$\begin{array}{r} 30 \\ \times 9 \\ \hline 270 \end{array}$	$\begin{array}{r} 34 \\ \times 9 \\ \hline 306 \end{array}$	$\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$	$\begin{array}{r} 17 \\ \times 9 \\ \hline 153 \end{array}$
A	E	A	D	H	A								

TWO-WAY Chain Reactions

Reacción en cadena en DOS MANERAS



	A	B	C	D
E	144	36	450	540
F	162	180	18	45
G	810	9	216	54
H	0	306	63	900
I	432	72	441	27
J	99	360	81	270
K	153	108	117	90

Total 21_A

$\frac{2}{3}$ of $\frac{21}{A} = \frac{14}{B}$ $\frac{1}{3}$ of $\frac{21}{A} = \frac{7}{C}$

$\frac{3}{3}$ of $\frac{21}{A} = \frac{21}{F}$ $\frac{3}{3} - \frac{2}{3} = \frac{1}{3}$ _D

36_B

$\frac{2}{3}$ of $\frac{36}{B} = \frac{24}{C}$ $\frac{1}{6} \times \frac{36}{B} = \frac{6}{H}$

$\frac{1}{2} \times \frac{36}{B} = \frac{18}{J}$ $\frac{2}{3} - \frac{1}{6} = \frac{3}{6} = \frac{1}{2}$ _D

64_C

$\frac{1}{8}$ of $\frac{64}{C} = \frac{8}{A}$ $\frac{1}{2} \times \frac{64}{C} = \frac{32}{B}$

$\frac{3}{8} \times \frac{64}{C} = \frac{24}{H}$ $\frac{1}{2} - \frac{1}{8} = \frac{3}{8}$ _D

54_F

$\frac{1}{6} \times \frac{54}{F} = \frac{9}{E}$ $\frac{1}{3} \times \frac{54}{F} = \frac{18}{C}$

$\frac{1}{2} \times \frac{54}{F} = \frac{27}{A}$ $\frac{1}{6} + \frac{1}{3} = \frac{3}{6} = \frac{1}{2}$ _D

DOMINO PUZZLES

ROMPECABEZAS DE DOMINOS

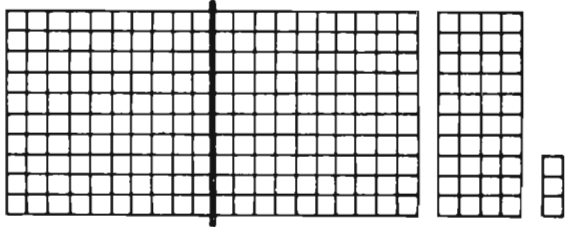
48+27 75_A

60+15 75_B

	A	B	C	D
E	18	9		$\frac{1}{9}$
F	21	75	54	$\frac{2}{5}$
G	27	36	7	$\frac{1}{3}$
H	6	42	24	$\frac{3}{4}$
I	75	14	64	$\frac{1}{2}, \frac{3}{6}$
J	8	32	18	$\frac{3}{8}$

"HOW MANY?"

"¿CUANTOS?"



Total 243_A

$$\begin{array}{r} 150 \\ - 6 \\ \hline 144 \end{array}$$

$$\begin{array}{r} 200 \\ - 82 \\ \hline 118 \end{array}$$

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

$$\begin{array}{r} 243 \\ - 117 \\ \hline 126 \end{array}$$

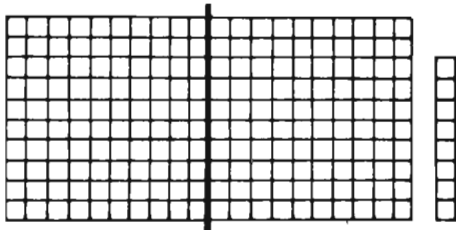
$$\begin{array}{r} 1243 \\ - 52 \\ \hline 1,191 \end{array}$$

$$\begin{array}{r} 743 \\ - 181 \\ \hline 562 \end{array}$$

$$\begin{array}{r} 373 \\ - 183 \\ \hline 190 \end{array}$$

$$\begin{array}{r} 373 \\ - 249 \\ \hline 124 \end{array}$$

$$\begin{array}{r} 783 \\ - 194 \\ \hline 589 \end{array}$$



Total 208_A

$$\begin{array}{r} 150 \\ + 58 \\ \hline 208 \end{array}$$

$$\begin{array}{r} 208 \\ - 19 \\ \hline 189 \end{array}$$

$$\begin{array}{r} 807 \\ - 219 \\ \hline 588 \end{array}$$

$$\begin{array}{r} 705 \\ - 208 \\ \hline 497 \end{array}$$

$$\begin{array}{r} 208 \\ \times 2 \\ \hline 416 \end{array}$$

$$\begin{array}{r} 208 \\ \times 5 \\ \hline 1,040 \end{array}$$

$$\begin{array}{r} 208 \\ \div 2 \\ \hline 104 \end{array}$$

$$\begin{array}{r} 104 \\ \div 2 \\ \hline 52 \end{array}$$

$$\begin{array}{r} 208 \\ \div 4 \\ \hline 52 \end{array}$$

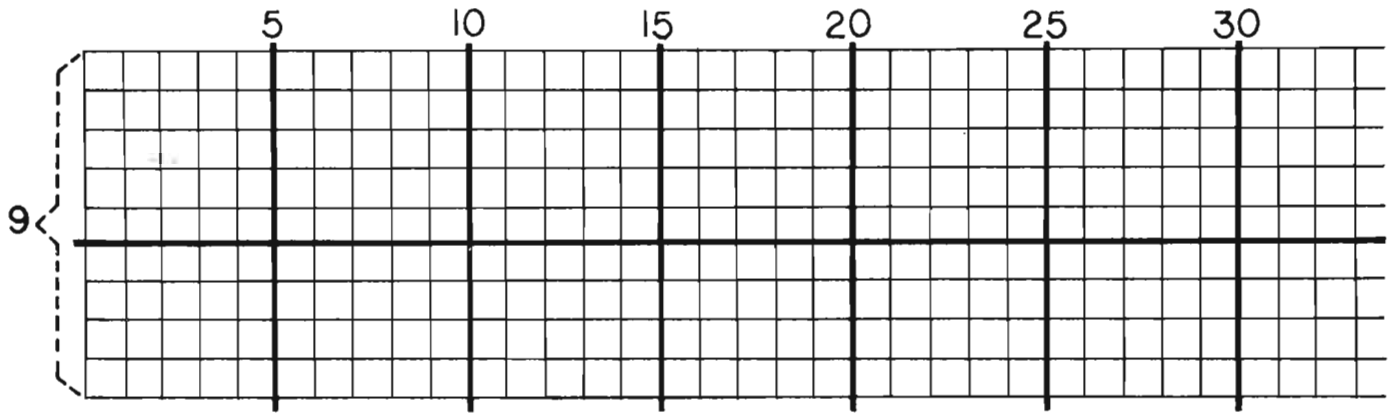
16 's

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

17 's

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

	A	B	C
D	841	497	150
E	243	126	416
F	1,040	144	1,191
G	601	562	52
H	208	190	118
I	189	104	124
J	84	589	588



$9 \overline{) 9}$	$9 \overline{) 18}$	$9 \overline{) 27}$	$9 \overline{) 36}$	$9 \overline{) 45}$	$9 \overline{) 54}$	$9 \overline{) 63}$	$9 \overline{) 72}$	$9 \overline{) 81}$
A	B	C	D	E	F	G	H	I

$9 \overline{) 0}$	$9 \overline{) 27}$	$9 \overline{) 90}$	$9 \overline{) 117}$
J	K	A	

$9 \overline{) 180}$	$9 \overline{) 270}$	$9 \overline{) 360}$	$9 \overline{) 450}$
B	C	D	E

$9 \overline{) 279}$	$9 \overline{) 270}$	$9 \overline{) 9}$	$9 \overline{) 189}$
A	B		

$9 \overline{) 468}$	$9 \overline{) 450}$	$9 \overline{) 18}$	$9 \overline{) 486}$
C			D

$9 \overline{) 801}$	$9 \overline{) 720}$	$9 \overline{) 81}$	$9 \overline{) 756}$
E		F	

$9 \overline{) 873}$	$9 \overline{) 810}$	$9 \overline{) 63}$	$9 \overline{) 855}$
			L

$9 \overline{) 675}$	$9 \overline{) 630}$	$9 \overline{) 45}$	$9 \overline{) 648}$	$9 \overline{) 693}$	$9 \overline{) 387}$	$9 \overline{) 360}$	$9 \overline{) 27}$	$9 \overline{) 432}$
I			L					

49	7		
0	6	6	<u>48</u>
			A

49	7		
1	3	1	<u>71</u>

49	7		
2	0	6	<u>104</u>
			C

64	8		
0	7	7	<u>63</u>

64	8		
1	4	1	<u>97</u>
			C

64	8		
2	4	1	<u>161</u>
			C

81	9		
0	8	8	<u>80</u>

81	9		
1	2	1	<u>100</u>
			A

81	9		
2	3	1	<u>190</u>
			A

	A	B	C	D
E	99	45	89	450
F	13	84	54	36
G	31	180	52	63
H	0,6,6	72	27	54
I	9	75	24,1	81
J	0	21	270	360
K	1,2,1	18	2,0,6	10
L	2,3,1	72	1,4,1	95

BUILDING AND USING TABLES

CONSTRUYENDO Y USANDO TABLAS

$\begin{array}{r} 26 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 26 \\ \times 1 \\ \hline 26 \end{array}$	$\begin{array}{r} 26 \\ \times 2 \\ \hline 52 \end{array}$	$\begin{array}{r} 26 \\ \times 3 \\ \hline 78 \end{array}$	$\begin{array}{r} 26 \\ \times 4 \\ \hline 104 \end{array}$	$\begin{array}{r} 26 \\ \times 5 \\ \hline 130 \end{array}$	$\begin{array}{r} 26 \\ \times 6 \\ \hline 156 \end{array}$	$\begin{array}{r} 26 \\ \times 7 \\ \hline 182 \end{array}$	$\begin{array}{r} 26 \\ \times 8 \\ \hline 208 \end{array}$	$\begin{array}{r} 26 \\ \times 9 \\ \hline 234 \end{array}$
---	--	--	--	---	---	---	---	---	---

$\begin{array}{r} 26 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 26 \\ \times 10 \\ \hline 260 \end{array}$	$\begin{array}{r} 26 \\ \times 20 \\ \hline 520 \end{array}$	$\begin{array}{r} 26 \\ \times 30 \\ \hline 780 \end{array}$	$\begin{array}{r} 26 \\ \times 40 \\ \hline 1,040 \end{array}$	$\begin{array}{r} 26 \\ \times 50 \\ \hline 1,300 \end{array}$	$\begin{array}{r} 26 \\ \times 60 \\ \hline 1,560 \end{array}$	$\begin{array}{r} 26 \\ \times 70 \\ \hline 1,820 \end{array}$	$\begin{array}{r} 26 \\ \times 80 \\ \hline 2,080 \end{array}$	$\begin{array}{r} 26 \\ \times 90 \\ \hline 2,340 \end{array}$
---	--	--	--	--	--	--	--	--	--

$\begin{array}{r} 26 \\ \times 14 \\ \hline 104 \\ \hline 260 \\ \hline 364 \end{array}$	$\begin{array}{r} 26 \\ \times 32 \\ \hline 52 \\ \hline 78 \\ \hline 832 \end{array}$	$\begin{array}{r} 26 \\ \times 29 \\ \hline 234 \\ \hline 52 \\ \hline 754 \end{array}$	$\begin{array}{r} 26 \\ \times 71 \\ \hline 26 \\ \hline 182 \\ \hline 1,846 \end{array}$	$\begin{array}{r} 26 \\ \times 46 \\ \hline 156 \\ \hline 104 \\ \hline 1,196 \end{array}$
$\begin{array}{r} 26 \\ \times 95 \\ \hline 130 \\ \hline 234 \\ \hline 2,470 \end{array}$	$\begin{array}{r} 26 \\ \times 77 \\ \hline 182 \\ \hline 182 \\ \hline 2,002 \end{array}$	$\begin{array}{r} 26 \\ \times 55 \\ \hline 130 \\ \hline 130 \\ \hline 1,430 \end{array}$	$\begin{array}{r} 26 \\ \times 88 \\ \hline 208 \\ \hline 208 \\ \hline 2,288 \end{array}$	$\begin{array}{r} 26 \\ \times 63 \\ \hline 78 \\ \hline 156 \\ \hline 1,638 \end{array}$

Chain Reactions

Reacciones en cadena

9 $\times 2$ $\div 3$ $\div 3$ $\times 2$ 4 $\times 9$ $\div 6$ 6 $\div 3$ $\div 2$ 1

27 $\div 9$ $\times 7$ 21 $\div 3$ $\times 8$ 56 $\div 7$ $\times 4$ 32 $\div 2$ $\div 2$ 8 $\times 5$ $\div 8$ 5

5 $\times 2$ $\times 3$ 30 $\div 6$ $\times 4$ 20 $\div 5$ $\div 4$ 1 $\times 3$ $\times 9$ 27 $\div 3$ $\div 9$ 1

2 $\times 4$ $\times 9$ 72 $\div 8$ $\div 3$ 3 $\times 2$ $\times 5$ 30

49 $\div 7$ $\times 8$ 56 $\div 7$ $\times 9$ 72 $\div 8$ $\div 3$ 3

	A	B	C	D	E	F
G	2,002	780	2,080	234	56	21
H	2,340	1,430	130	1,846	1,196	208
I	78	832	1,040	156	20	1,820
J	72	104	2,288	1,638	1,560	8
K	520	2	754	1,300	182	2,470

\$3.60.....
..... 1 HOUR

HOURS	total
1	\$3.60
2	\$7.20 B
$\frac{1}{2}$	\$1.80 C
$\frac{1}{4}$	\$.90 D
$\frac{1}{3}$	\$1.20 E
$2\frac{1}{2}$	\$9.00 F
10	\$36.00 G

20 miles /gallon

gallons	miles
2	40 H
1	20
$\frac{1}{2}$	10 J
$\frac{1}{4}$	5 K
$\frac{3}{4}$	15 A
$3\frac{1}{2}$	70 B
$5\frac{3}{4}$	115 C

$\frac{1}{4}$ OFF

P	$\frac{3}{4}P$
\$4.00	\$3.00 D
40¢	30¢ J
\$1.00	75¢
\$2.00	\$1.50 G
\$1.20	\$.90 D
\$10.00	\$7.50 H
\$8.00	\$6.00 I

10 MILLIMETERS
↓
1 CENTIMETER
10MM=1CM

CM	MM
1	10 J
3	30 C
10	100 F
$\frac{1}{2}$	5 K
$\frac{1}{10}$	1 A
$2\frac{1}{2}$	25 F
$2\frac{7}{10}$	21 G
$3\frac{9}{10}$	39 D

BOOK
10¢ ea - 3 for 25¢

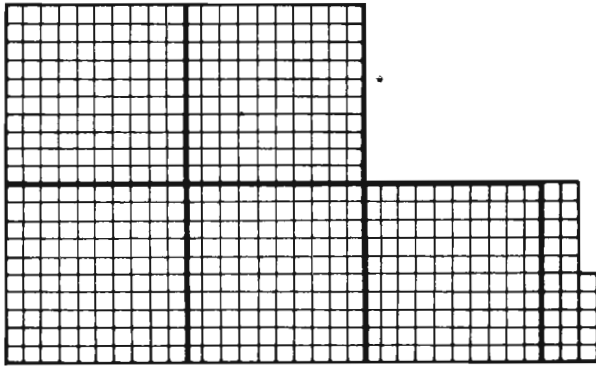
books	TOTAL
1	10¢ A
3	25¢
4	35¢ G
5	45¢ B
6	50¢
7	60¢ G
8	70¢ I
14	\$1.20 K

1,000 METERS
↓
1 KILOMETER
1KM=1,000M

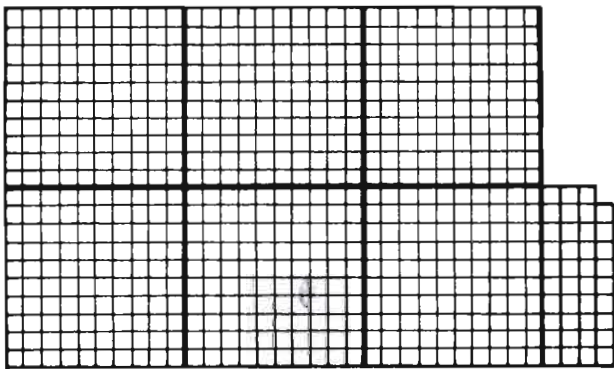
KM	M
$\frac{1}{2}$	500 J
2	2,000 A
$\frac{1}{10}$	100 F
10	10,000 K

	A	B	C	D	E	F
G	15	60	1.50	35	$2\frac{1}{10}$	3600
H	3.60	7.50	1.80	3.00	40	75
I	2,000	70	$5\frac{3}{4}$	8.00	$\frac{1}{3}$	$2\frac{1}{2}$
J	10	7.20	30	.90	500	100
K	1	45	1,000	$3\frac{9}{10}$	5	14

"HOW MANY?"



Total 525-A



Total 639-A

"¿CUANTOS?"

$$\begin{array}{r} 400 \\ + 125 \\ \hline 525 \end{array} \text{F}$$

$$\begin{array}{r} 525 \\ + 307 \\ \hline 832 \end{array} \text{B}$$

$$\begin{array}{r} 525 \\ + 181 \\ \hline 706 \end{array} \text{C}$$

$$\begin{array}{r} 525 \\ + 525 \\ \hline 1,050 \end{array} \text{D}$$

$$\begin{array}{r} 525 \\ + 175 \\ \hline 700 \end{array} \text{E}$$

$$\begin{array}{r} 525 \\ + 199 \\ \hline 724 \end{array} \text{F}$$

$$\begin{array}{r} 525 \\ \times 2 \\ \hline 1,050 \end{array} \text{C}$$

$$\begin{array}{r} 800 \\ - 278 \\ \hline 522 \end{array} \text{G}$$

$$\begin{array}{r} 724 \\ - 198 \\ \hline 526 \end{array}$$

$$\begin{array}{r} 300 \\ + 339 \\ \hline 639 \end{array} \text{H}$$

$$\begin{array}{r} 630 \\ - 140 \\ \hline 490 \end{array} \text{B}$$

$$\begin{array}{r} 630 \\ + 75 \\ \hline 705 \end{array} \text{C}$$

$$\begin{array}{r} 639 \\ + 61 \\ \hline 700 \end{array} \text{B}$$

$$\begin{array}{r} 339 \\ + 339 \\ \hline 678 \end{array} \text{C}$$

$$\begin{array}{r} 339 \\ + 393 \\ \hline 732 \end{array} \text{D}$$

$$\begin{array}{r} 639 \\ + 361 \\ \hline 1,000 \end{array} \text{A}$$

$$\begin{array}{r} 339 \\ \times 2 \\ \hline 678 \end{array} \text{B}$$

$$\begin{array}{r} 639 \\ \div 3 \\ \hline 213 \end{array} \text{A}$$

"LOOP ARITHMETIC"

"ARITMETICA DE LAZOS"

$$\begin{array}{r} 666 \\ 777 \end{array} \text{ (26)}$$

$$\begin{array}{r} 666 \\ 777 \end{array} \text{ (25)}$$

$$\begin{array}{r} 555 \\ 999 \end{array} \text{ (32)}$$

$$\begin{array}{r} 555 \\ 999 \end{array} \text{ (28)}$$

$$\begin{array}{r} 555 \\ 999 \end{array} \text{ (24)}$$

$$\begin{array}{r} 333 \\ 888 \end{array} \text{ (24)}$$

$$\begin{array}{r} 333 \\ 888 \end{array} \text{ (33)}$$

$$\begin{array}{r} 333 \\ 888 \end{array} \text{ (17)}$$

	A	B	C
D	1,000	732	1,050
E	338	700	706
F	525	490	724
G	213	832	522
H	639	678	705
I	6,677	6,667	678
J	3,338	5,559	3,338,888
K	8,888	5,599	5,999

BUILDING AND USING TABLES

CONSTRUYENDO Y USANDO TABLAS

$\begin{array}{r} 12 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 12 \\ \times 1 \\ \hline 12 \end{array}$	$\begin{array}{r} 12 \\ \times 2 \\ \hline 24 \end{array}$	$\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array}$	$\begin{array}{r} 12 \\ \times 4 \\ \hline 48 \end{array}$	$\begin{array}{r} 12 \\ \times 5 \\ \hline 60 \end{array}$	$\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$	$\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$	$\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$	$\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$
			A	B	C	D	E	F	G

$\begin{array}{r} 12 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 12 \\ \times 10 \\ \hline 120 \end{array}$	$\begin{array}{r} 12 \\ \times 20 \\ \hline 240 \end{array}$	$\begin{array}{r} 12 \\ \times 30 \\ \hline 360 \end{array}$	$\begin{array}{r} 12 \\ \times 40 \\ \hline 480 \end{array}$	$\begin{array}{r} 12 \\ \times 50 \\ \hline 600 \end{array}$	$\begin{array}{r} 12 \\ \times 60 \\ \hline 720 \end{array}$	$\begin{array}{r} 12 \\ \times 70 \\ \hline 840 \end{array}$	$\begin{array}{r} 12 \\ \times 80 \\ \hline 960 \end{array}$	$\begin{array}{r} 12 \\ \times 90 \\ \hline 1,080 \end{array}$
		A	B	C	D	E	F	G	H

$\begin{array}{r} 12 \\ \times 2 \\ \hline 24 \end{array}$	$\begin{array}{r} 12 \\ \times 10 \\ \hline 120 \end{array}$	$\begin{array}{r} 12 \\ \times 12 \\ \hline 144 \end{array}$
		A

$\begin{array}{r} 12 \\ \times 4 \\ \hline 48 \end{array}$	$\begin{array}{r} 12 \\ \times 20 \\ \hline 240 \end{array}$	$\begin{array}{r} 12 \\ \times 24 \\ \hline 288 \end{array}$
		B

$\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$	$\begin{array}{r} 12 \\ \times 50 \\ \hline 600 \end{array}$	$\begin{array}{r} 12 \\ \times 58 \\ \hline 696 \end{array}$
		C

$\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$	$\begin{array}{r} 12 \\ \times 20 \\ \hline 240 \end{array}$	$\begin{array}{r} 12 \\ \times 29 \\ \hline 348 \end{array}$
		D

$\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array}$	$\begin{array}{r} 12 \\ \times 70 \\ \hline 840 \end{array}$	$\begin{array}{r} 12 \\ \times 73 \\ \hline 876 \end{array}$
		E

$\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$	$\begin{array}{r} 12 \\ \times 60 \\ \hline 720 \end{array}$	$\begin{array}{r} 12 \\ \times 66 \\ \hline 792 \end{array}$
		F

$\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$	$\begin{array}{r} 12 \\ \times 50 \\ \hline 600 \end{array}$	$\begin{array}{r} 12 \\ \times 59 \\ \hline 708 \end{array}$
---	--	--

$\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array}$	$\begin{array}{r} 12 \\ \times 80 \\ \hline 960 \end{array}$	$\begin{array}{r} 12 \\ \times 83 \\ \hline 996 \end{array}$
		J

$\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$	$\begin{array}{r} 12 \\ \times 60 \\ \hline 720 \end{array}$	$\begin{array}{r} 12 \\ \times 67 \\ \hline 804 \end{array}$
		K

$60 = 8 \times 7 + \underline{\underline{4}}_C$

$38 = 9 \times 4 + \underline{\underline{2}}_A$

$48 = 6 \times 8 + \underline{\underline{0}}_G$

$40 = 6 \times 6 + \underline{\underline{4}}_D$

$38 = 5 \times 7 + \underline{\underline{3}}_B$

$31 = 7 \times 4 + \underline{\underline{3}}_B$

$85 = 9 \times 9 + \underline{\underline{4}}_F$

$58 = 9 \times 6 + \underline{\underline{4}}_C$

$78 = 8 \times 9 + \underline{\underline{6}}_A$

$43 = 5 \times 8 + \underline{\underline{3}}_D$

$53 = 7 \times 7 + \underline{\underline{4}}_C$

$28 = 5 \times 5 + \underline{\underline{3}}_B$

$34 = 6 \times 5 + \underline{\underline{4}}_F$

$48 = 9 \times 5 + \underline{\underline{3}}_L$

$65 = 7 \times 9 + \underline{\underline{2}}_A$

$43 = 7 \times 6 + \underline{\underline{1}}_E$

$65 = 8 \times 8 + \underline{\underline{1}}_L$

	A	B	C	D	E
F	144	840	4	96	792
G	36	0	108	600	960
H	6	360	60	1080	84
I	5	48	708	348	720
J	240	288	996	3	876
K	7	804	696	72	5
L	2	3	480	4	1

$\frac{1}{7}$ of $\frac{56}{A} = \frac{8}{B}$ $\frac{2}{7}$ of $\frac{56}{A} = \frac{16}{C}$
 $\frac{3}{7}$ of $\frac{56}{A} = \frac{24}{D}$ $\frac{3}{7} - \frac{1}{7} = \frac{2}{7} E$

$\frac{1}{6}$ of $\frac{48}{A} = \frac{8}{B}$ $\frac{1}{3} \times \frac{48}{A} = \frac{16}{C}$
 $\frac{1}{2} \times \frac{48}{A} = \frac{24}{D}$ $\frac{1}{2} - \frac{1}{6} = \frac{2}{3} E$

$\frac{1}{5}$ of $\frac{30}{J} = \frac{6}{B}$ $\frac{1}{10} \times \frac{30}{A} = \frac{3}{C}$
 $\frac{3}{5} \times \frac{30}{J} = \frac{18}{D}$ $\frac{1}{5} - \frac{1}{10} = \frac{1}{10} F$

$\frac{1}{10} \times \frac{60}{A} = \frac{6}{B}$ $\frac{4}{10} \times \frac{60}{A} = \frac{24}{D}$
 $\frac{1}{2} \times \frac{60}{A} = \frac{30}{J}$ $\frac{1}{2} - \frac{4}{10} = \frac{1}{10} C$

Please loop "3 or more neighbors"

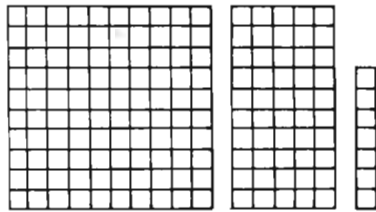
Ponga un lazo alrededor de 3 o "más vecinos"

A	B	C	H	E	F	J
9	9	9	9	9	9	9
4	4	4	4	4	4	4
6	6	6	6	6	6	6
5	5	5	5	5	5	5
7	7	7	7	7	7	7
8	8	8	8	8	8	8
<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
18	19	20	22	24	26	31

	A	B	C	D
E	9,6 4,5	$\frac{2}{7}$	3	$\frac{1}{3}, \frac{2}{6}$
F	5,6	$\frac{5,7}{8}$	$\frac{1}{10}$	$\frac{6,5}{7,8}$
G	$\frac{6}{5,7}$	6	16	18
H	4,8	$\frac{4,6}{5,7}$	$\frac{5}{7,8}$	24
I	$\frac{9,4}{5,7,8}$	8	$\frac{4,6}{7,8}$	$\frac{4,6}{5,7,8}$
J	60	$\frac{9}{4,6}$	30	$\frac{9,4,6}{5,7}$

"HOW MANY?"

"¿CUANTOS?"



Total ~~157~~ A

$$\begin{array}{r} 150 \\ + 7 \\ \hline 157 \end{array} \text{F}$$

$$\begin{array}{r} 150 \\ + 57 \\ \hline 207 \end{array} \text{B}$$

$$\begin{array}{r} 157 \\ + 57 \\ \hline 214 \end{array} \text{C}$$

$$\begin{array}{r} 157 \\ + 157 \\ \hline 314 \end{array} \text{D}$$

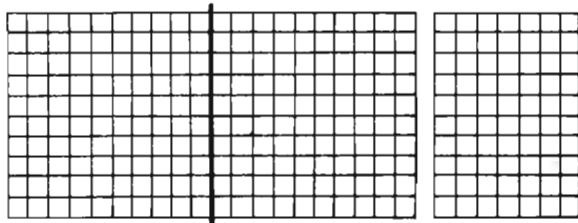
$$\begin{array}{r} 314 \\ + 157 \\ \hline 471 \end{array} \text{A}$$

$$\begin{array}{r} 200 \\ - 157 \\ \hline 43 \end{array} \text{G}$$

$$\begin{array}{r} 157 \\ \times 2 \\ \hline 314 \end{array} \text{C}$$

$$\begin{array}{r} 157 \\ \times 3 \\ \hline 471 \end{array} \text{J}$$

$$\begin{array}{r} 314 \\ \div 2 \\ \hline 157 \end{array} \text{A}$$



Total ~~270~~ A

$$\begin{array}{r} 300 \\ - 270 \\ \hline 30 \end{array} \text{B}$$

$$\begin{array}{r} 270 \\ - 75 \\ \hline 195 \end{array} \text{C}$$

$$\begin{array}{r} 570 \\ - 180 \\ \hline 390 \end{array} \text{A}$$

$$\begin{array}{r} 270 \\ + 270 \\ \hline 540 \end{array} \text{D}$$

$$\begin{array}{r} 540 \\ + 270 \\ \hline 810 \end{array} \text{C}$$

$$\begin{array}{r} 135 \\ + 135 \\ \hline 270 \end{array} \text{I}$$

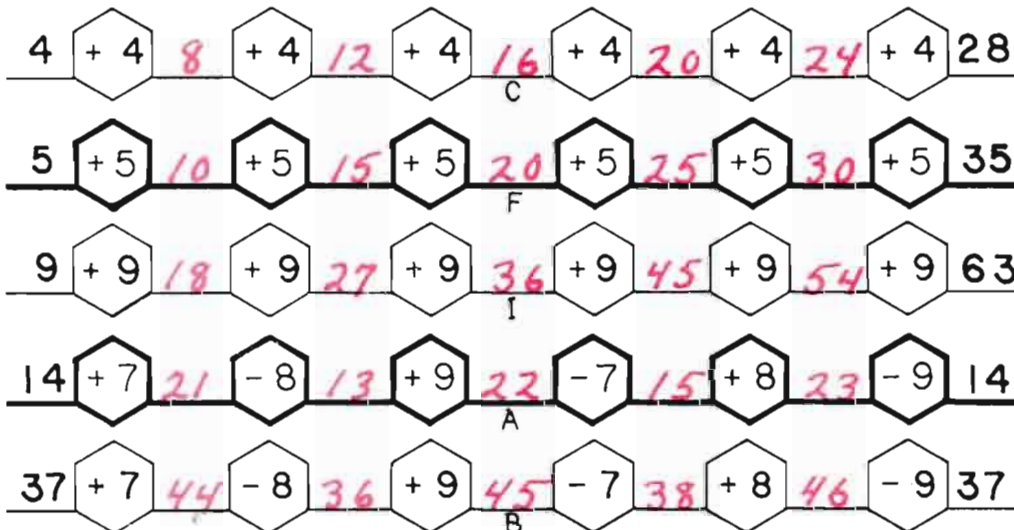
$$\begin{array}{r} 270 \\ \times 2 \\ \hline 540 \end{array} \text{B}$$

$$\begin{array}{r} 270 \\ \div 3 \\ \hline 90 \end{array} \text{H}$$

$$\begin{array}{r} 270 \\ \div 9 \\ \hline 30 \end{array} \text{J}$$

Chain Reactions

Reaccion en cadenas



	A	B	C
D	51	540	314
E	390	207	16
F	157	45	20
G	22	43	214
H	145	453	90
I	270	36	195
J	471	30	810

Addition

Sumar

$$\begin{array}{r} 343 \\ +150 \\ \hline 493 \end{array}$$

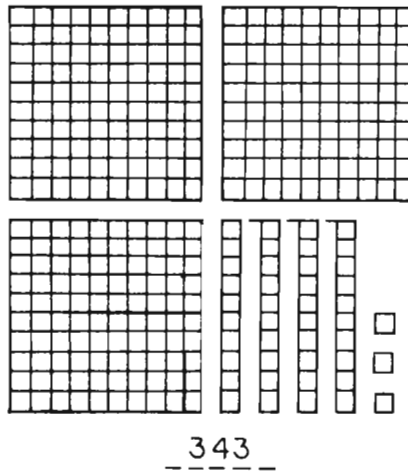
$$\begin{array}{r} 343 \\ +159 \\ \hline 502 \end{array}$$

$$\begin{array}{r} 743 \\ +197 \\ \hline 940 \end{array}$$

$$\begin{array}{r} 743 \\ +408 \\ \hline 1151 \end{array}$$

$$\begin{array}{r} 343 \\ 343 \\ +343 \\ \hline 1029 \end{array}$$

$$\begin{array}{r} 343 \\ \times 3 \\ \hline 1029 \end{array}$$



343

Subtraction

Restar

$$\begin{array}{r} 343 \\ -19 \\ \hline 324 \end{array}$$

$$\begin{array}{r} 300 \\ -43 \\ \hline 257 \end{array}$$

$$\begin{array}{r} 743 \\ -181 \\ \hline 562 \end{array}$$

$$\begin{array}{r} 743 \\ -388 \\ \hline 355 \end{array}$$

$$\begin{array}{r} 800 \\ -7 \\ \hline 793 \end{array}$$

$$\begin{array}{r} 312 \\ \div 3 \\ \hline 104 \end{array}$$

0	1	2	3	4	5	6	7	8	9	10	11	12	13
$\times 9$	$\times 9$	$\times 9$	$\times 9$	$\times 9$	$\times 9$	$\times 9$	$\times 9$	$\times 9$	$\times 9$	$\times 9$	$\times 9$	$\times 9$	$\times 9$
0	9	18	27	36	45	54	63	72	81	90	99	108	117

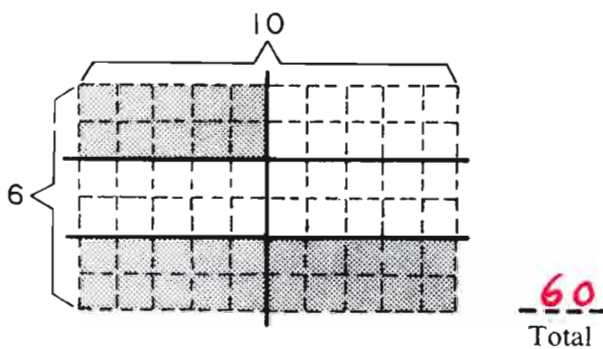
20	30	40
$\times 9$	$\times 9$	$\times 9$
180	270	360

5	25	50
$\times 9$	$\times 9$	$\times 9$
45	225	450

9	69	60
$\times 9$	$\times 9$	$\times 9$
81	621	540

12	24	48
$\times 9$	$\times 9$	$\times 9$
108	216	432

10	20	30	40
9 $\overline{)90}$	9 $\overline{)180}$	9 $\overline{)270}$	9 $\overline{)360}$
8	6	9	7
9 $\overline{)72}$	9 $\overline{)54}$	9 $\overline{)81}$	9 $\overline{)63}$
18	26	39	47
9 $\overline{)162}$	9 $\overline{)234}$	9 $\overline{)351}$	9 $\overline{)423}$



$$\frac{1}{3} \text{ of } 60 = 20$$

$$\frac{1}{2} \times 60 = 30$$

$$\frac{1}{6} \times 60 = 10$$

$$\frac{1}{6} + \frac{1}{3} = \frac{1}{2} + \frac{1}{3}$$

$\frac{1}{4}$ OFF

P	$\frac{3}{4}$ P
80¢	60¢
\$12.00	9.00
40¢	30¢
\$1.60	\$1.20
\$8.00	\$6.00

\$1 = 10 (10¢)

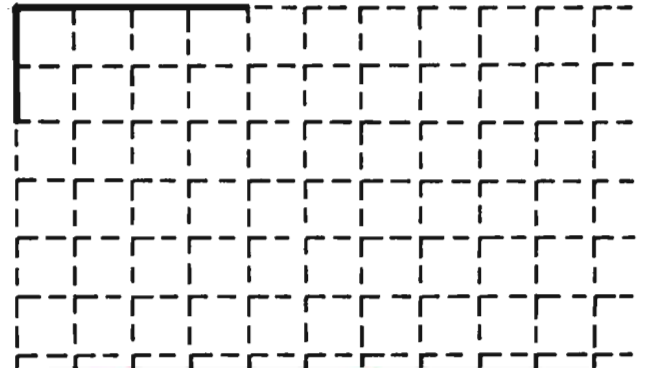
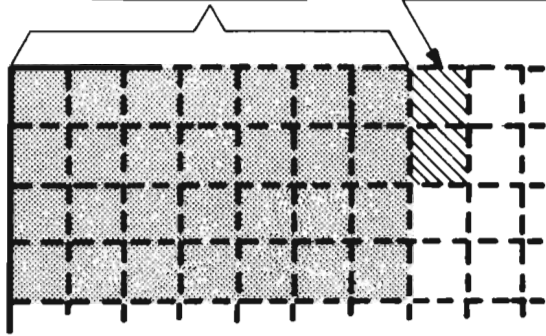
DOLLARS	dimes
2	20
$\frac{1}{2}$	5
$\frac{1}{10}$	1



Division examples with "Remainders"

Ejemplos de división con "Restantes"

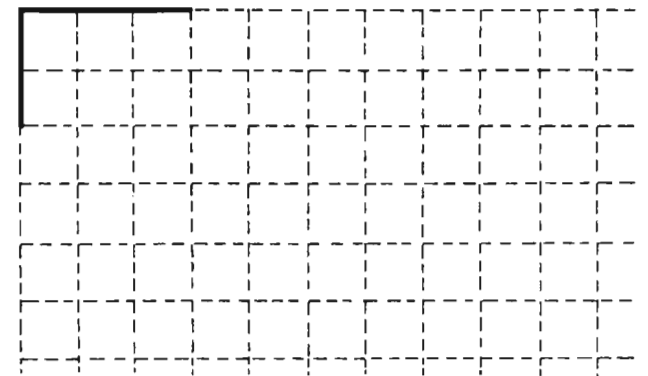
? See also: D.I. p. 163 - 168
 $4 \overline{)30}$ 7 hileras iguales y sobran dos
 7 rows alike and 2 left over



$6 \overline{)40}^D$ or $6 \overline{)40}^E$ or $6 \overline{)40}^F$

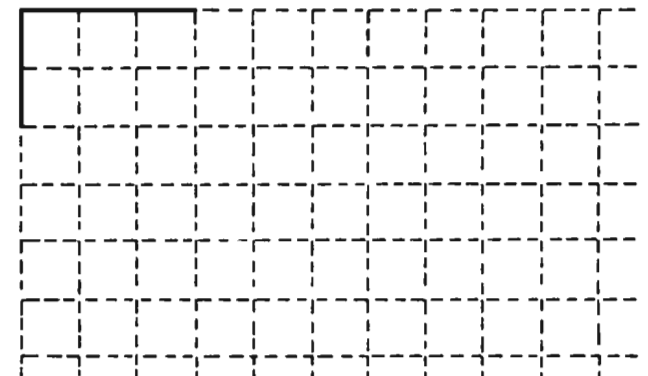
(a) $7 \overline{)30}^{R2}$ or (b) $7 \overline{)30}^{\frac{2}{4}}$ or (c) $7 \overline{)30}^{\frac{1}{2}}$

- (a) "7 and remainder of 2"
- (b) "7 and 2 out of the 4 needed" to complete another column
- (c) "7 and $\frac{1}{2}$ of those needed" to complete another column



$8 \overline{)34}^G$ or $8 \overline{)34}^{\frac{2}{4}}^H$ or $8 \overline{)34}^{\frac{1}{2}}^I$

- (a) "7 y restante de 2"
- (b) "7 y 2 de los 4 se necesitan" para completar otra columna.
- (c) "7 y $\frac{1}{2}$ de los que se necesitan" para completar otra columna.



$5 \overline{)34}^J$ or $5 \overline{)34}^{\frac{4}{5}}^K$

A	B	C	D	E	F	G	H	
$5 \frac{1}{2}$	$9 \frac{1}{2}$	$8 \frac{1}{3}$	$8 \frac{1}{2}$	$6 \frac{4}{6}$	$6 \frac{1}{8}$	$7 \frac{3}{5}$	$9 \frac{1}{2}$	I
$8 \overline{)30}^{R2}$	$9 \frac{4}{8}$	$5 \frac{1}{2}$	$5 \overline{)7}^{R7}$	$6 \overline{)4}^{R4}$	$6 \frac{2}{3}$	$8 \overline{)2}^{R2}$	$8 \frac{2}{4}$	J
$7 \overline{)3}^{R3}$	$8 \frac{2}{6}$	$7 \frac{2}{3}$	$6 \overline{)4}^{R4}$	$4 \overline{)3}^{R3}$	$5 \frac{1}{5}$	$6 \frac{4}{5}$	$7 \overline{)1}^{R1}$	K

a special problem

un problema especial

$$\begin{array}{r} 69 \\ \cancel{7}04 \\ - 68 \\ \hline 3 \end{array} \quad \begin{array}{r} 704 \\ - 68 \\ \hline 636 \end{array} \quad \text{A}$$

$$\begin{array}{r} 49 \\ \cancel{5}00 \\ - 147 \\ \hline 353 \end{array} \quad \begin{array}{r} 500 \\ - 147 \\ \hline 353 \end{array} \quad \text{B}$$

$$\begin{array}{r} 79 \\ \cancel{8}045 \\ - 2783 \\ \hline 2 \end{array} \quad \begin{array}{r} 8045 \\ - 2783 \\ \hline 5262 \end{array} \quad \text{C}$$

$$\begin{array}{r} 79 \\ \cancel{8}03 \\ - 359 \\ \hline 444 \end{array} \quad \begin{array}{r} 803 \\ - 359 \\ \hline 444 \end{array} \quad \text{D}$$

$$\begin{array}{r} 29 \\ \cancel{1,3}00 \\ - 896 \\ \hline 404 \end{array} \quad \begin{array}{r} 1,300 \\ - 896 \\ \hline 404 \end{array} \quad \text{E}$$

$$\begin{array}{r} 4 \\ \cancel{5}073 \\ - 1,892 \\ \hline 3181 \end{array} \quad \begin{array}{r} 5,073 \\ - 1,892 \\ \hline 3181 \end{array} \quad \text{F}$$

$$\begin{array}{r} 69 \\ \cancel{7}004 \\ - 1,068 \\ \hline 5936 \end{array} \quad \begin{array}{r} 699 \\ \cancel{7}004 \\ - 1,068 \\ \hline 5936 \end{array} \quad \begin{array}{r} 7,004 \\ - 1,068 \\ \hline 5936 \end{array} \quad \text{G}$$

$$\begin{array}{r} 8 \\ \cancel{9}000 \\ - 1,745 \\ \hline 7255 \end{array} \quad \begin{array}{r} 899 \\ \cancel{9}000 \\ - 1,745 \\ \hline 7255 \end{array} \quad \begin{array}{r} 9,000 \\ - 1,745 \\ \hline 7255 \end{array} \quad \text{H}$$

$$\begin{array}{r} 7 \\ \cancel{8}003 \\ - 2,359 \\ \hline 5644 \end{array} \quad \begin{array}{r} 799 \\ \cancel{8}003 \\ - 2,359 \\ \hline 5644 \end{array} \quad \begin{array}{r} 8,003 \\ - 2,359 \\ \hline 5644 \end{array} \quad \text{I}$$

$$\begin{array}{r} 12 \\ \cancel{1,3}000 \\ - 4,896 \\ \hline 8104 \end{array} \quad \begin{array}{r} 129 \\ \cancel{1,3}000 \\ - 4,896 \\ \hline 8104 \end{array} \quad \begin{array}{r} 13,000 \\ - 4,896 \\ \hline 8104 \end{array} \quad \text{J}$$

$29 = 3 \times 9 + \underline{2} \text{---A}$

$49 = 8 \times 6 + \underline{1} \text{---A}$

$49 = 5 \times 9 + \underline{4} \text{---A}$

$59 = 7 \times 8 + \underline{3} \text{---B}$

$39 = 9 \times 4 + \underline{3} \text{---B}$

$69 = 8 \times 8 + \underline{5} \text{---B}$

$79 = 8 \times 9 + \underline{7} \text{---C}$

$49 = 7 \times 7 + \underline{0} \text{---C}$

$49 = 5 \times 9 + \underline{4} \text{---A}$

$59 = 9 \times 6 + \underline{5} \text{---D}$

$79 = 8 \times 9 + \underline{7} \text{---D}$

$69 = 8 \times 8 + \underline{5} \text{---B}$

$45 = 8 \times 5 + \underline{5} \text{---E}$

$45 = 6 \times 7 + \underline{3} \text{---E}$

$49 = 5 \times 9 + \underline{4} \text{---A}$

$69 = 7 \times 9 + \underline{6} \text{---F}$

$89 = 9 \times 9 + \underline{8} \text{---F}$

$69 = 8 \times 8 + \underline{5} \text{---B}$

	A	B	C	D	E
F	7	3	8	3,181	6
G	636	8	5262	9	5936
H	4	353	10	7255	5
I	11	5	5644	7	404
J	2	8,104	0	5	3
K	12	16	7	444	13
L	1	18	14	17	15

1 P..... 4¢
3 P..... 10¢

total	P	
4¢	1	
8¢	2	B
10¢	3	
14¢	4	D
24¢	7	E
34¢	10	F
50¢	15	H

15 MILES.....GALLON

MILES	GALLONS	
15	1	
45	3	I
150	10	H
7½	½	A
5	⅓	B
25	1⅔	C
75	5	I

1 DOLLAR = 100¢

dollars	¢	
\$ 2	200¢	
\$ ½	50¢	D
\$ ¾	75¢	E
\$ 5	500¢	B
\$ 3¼	325¢	I
\$ 1⅗	170¢	H
\$ 2⅓	230¢	J

1 M = 100 cm

M	cm	
2	200	
½	50	H
¾	75	E
5	500	I
3¼	325	F
1⅗	170	B
2⅓	230	F
⅓	100	A

⅓ OFF

P	⅔ P	
30¢	20¢	
42¢	28¢	D
27¢	18¢	F
15¢	10¢	C
21¢	14¢	G
\$3.00	\$ 2.00	K
\$7.50	\$ 5.00	J
\$1.20	80¢	B

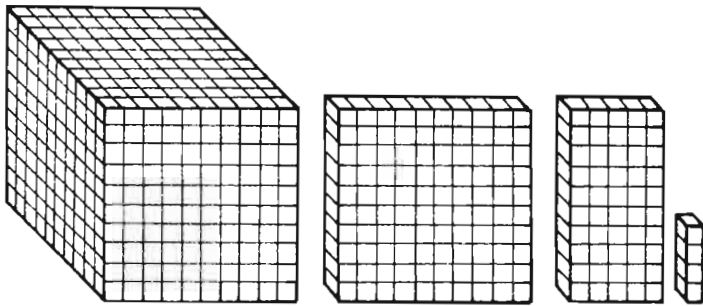
1 HOUR...480 miles

HOURS	miles	
½	240	
¼	120	K
¾	360	F
2½	1200	G

	A	B	C	D	E	F
G	1	8	15	14	1200	360
H	4	170	25	50	75	10
I	½	5	3	28	7	325
J	90	2	15	500	200	230
K	120	80	200	72	240	18

"HOW MANY?"

"¿CUANTOS?"



Total 1,154

$$\begin{array}{r} 100 \\ - 45 \\ \hline 55 \end{array}$$

$$\begin{array}{r} 145 \\ - 50 \\ \hline 95 \end{array}$$

$$\begin{array}{r} 145 \\ - 59 \\ \hline 86 \end{array}$$

$$\begin{array}{r} 1,150 \\ - 725 \\ \hline 425 \end{array}$$

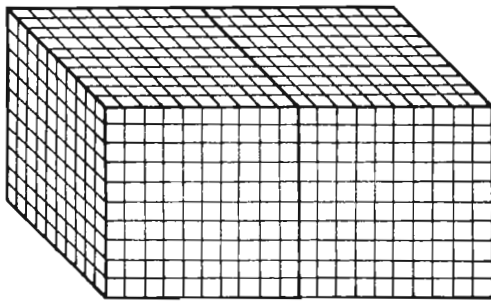
$$\begin{array}{r} 1,154 \\ - 308 \\ \hline 846 \end{array}$$

$$\begin{array}{r} 1,154 \\ - 1,092 \\ \hline 62 \end{array}$$

$$\begin{array}{r} 1,154 \\ + 1,154 \\ \hline 2,308 \end{array}$$

$$\begin{array}{r} 1,154 \\ \times 2 \\ \hline 2,308 \end{array}$$

$$\begin{array}{r} 1,154 \\ \div 2 \\ \hline 577 \end{array}$$



Total 2,378

$$\begin{array}{r} 378 \\ - 109 \\ \hline 269 \end{array}$$

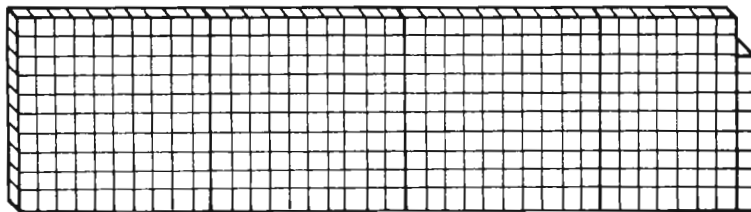
$$\begin{array}{r} 378 \\ - 287 \\ \hline 91 \end{array}$$

$$\begin{array}{r} 378 \\ - 189 \\ \hline 189 \end{array}$$

$$\begin{array}{r} 2,378 \\ - 1,349 \\ \hline 1,029 \end{array}$$

$$\begin{array}{r} 2,378 \\ - 1,289 \\ \hline 1,089 \end{array}$$

$$\begin{array}{r} 2,378 \\ - 1,419 \\ \hline 959 \end{array}$$



$$\begin{array}{r} 2,378 \\ + 2,378 \\ \hline 4,756 \end{array}$$

$$\begin{array}{r} 2,378 \\ \times 2 \\ \hline 4,756 \end{array}$$

$$\begin{array}{r} 2,378 \\ \div 2 \\ \hline 1,189 \end{array}$$

Please use the smallest whole numbers. Favor de usar los números más pequeños.

$$\begin{array}{r} 4 \quad 2 \quad 1 \\ 101 \underline{5} \end{array}$$

$$\begin{array}{r} 9 \quad 3 \quad 1 \\ 212 \underline{23} \end{array}$$

$$\begin{array}{r} 16 \quad 4 \quad 1 \\ 301 \underline{49} \end{array}$$

$$\begin{array}{r} 25 \quad 5 \quad 1 \\ 324 \underline{89} \end{array}$$

$$\begin{array}{r} 36 \quad 6 \quad 1 \\ 151 \underline{67} \end{array}$$

$$\begin{array}{r} 49 \quad 7 \quad 1 \\ 236 \underline{125} \end{array}$$

$$\begin{array}{r} 64 \quad 8 \quad 1 \\ 144 \underline{100} \end{array}$$

$$\begin{array}{r} 81 \quad 9 \quad 1 \\ 242 \underline{200} \end{array}$$

$$\begin{array}{r} 100 \quad 10 \quad 1 \\ 376 \underline{376} \end{array}$$



How do you feel?
¿Cómo se siente?

BUILDING AND USING TABLES

CONSTRUYENDO Y USANDO TABLAS

$\begin{array}{r} 15 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 15 \\ \times 1 \\ \hline 15 \end{array}$	$\begin{array}{r} 15 \\ \times 2 \\ \hline 30 \end{array}$	$\begin{array}{r} 15 \\ \times 3 \\ \hline 45 \end{array}$	$\begin{array}{r} 15 \\ \times 4 \\ \hline 60 \end{array}$	$\begin{array}{r} 15 \\ \times 5 \\ \hline 75 \end{array}$	$\begin{array}{r} 15 \\ \times 6 \\ \hline 90 \end{array}$	$\begin{array}{r} 15 \\ \times 7 \\ \hline 105 \end{array}$	$\begin{array}{r} 15 \\ \times 8 \\ \hline 120 \end{array}$	$\begin{array}{r} 15 \\ \times 9 \\ \hline 135 \end{array}$
---	--	--	--	--	--	--	---	---	---

A B C D E F G

$\begin{array}{r} 15 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 15 \\ \times 10 \\ \hline 150 \end{array}$	$\begin{array}{r} 15 \\ \times 20 \\ \hline 300 \end{array}$	$\begin{array}{r} 15 \\ \times 30 \\ \hline 450 \end{array}$	$\begin{array}{r} 15 \\ \times 40 \\ \hline 600 \end{array}$	$\begin{array}{r} 15 \\ \times 50 \\ \hline 750 \end{array}$	$\begin{array}{r} 15 \\ \times 60 \\ \hline 900 \end{array}$	$\begin{array}{r} 15 \\ \times 70 \\ \hline 1,050 \end{array}$	$\begin{array}{r} 15 \\ \times 80 \\ \hline 1,200 \end{array}$	$\begin{array}{r} 15 \\ \times 90 \\ \hline 1,350 \end{array}$
---	--	--	--	--	--	--	--	--	--

H I J A B C D E

$\begin{array}{r} 25 \\ \times 15 \\ \hline 375 \\ 750 \\ \hline 3750 \end{array}$ ^{R4}

$\begin{array}{r} 15 \\ \times 187 \\ \hline 150 \\ 370 \\ 750 \\ \hline 2835 \end{array}$ ^{R7}

$\begin{array}{r} 15 \\ \times 971 \\ \hline 900 \\ 710 \\ 900 \\ \hline 14565 \end{array}$ ^{R11}

$\begin{array}{r} 15 \\ \times 1292 \\ \hline 1200 \\ 920 \\ 2580 \\ \hline 19680 \end{array}$ ^{R2}

$\begin{array}{r} 15 \\ \times 861 \\ \hline 750 \\ 1110 \\ 1050 \\ \hline 13065 \end{array}$ ^{R6}

$\begin{array}{r} 15 \\ \times 1396 \\ \hline 1350 \\ 460 \\ 450 \\ \hline 21396 \end{array}$ ^{R1}

$\begin{array}{r} 15 \\ \times 464 \\ \hline 450 \\ 140 \\ 00 \\ \hline 6960 \end{array}$ ^{R14}

$\begin{array}{r} 15 \\ \times 703 \\ \hline 600 \\ 1030 \\ 900 \\ \hline 10545 \end{array}$ ^{R13}

Smallest Numbers ...

Números más pequeños...

$\begin{array}{r} 25 \quad 5 \quad 1 \\ \boxed{4 \quad 1 \quad 3} \quad 108 \end{array}$ ^M

$\begin{array}{r} 25 \quad 5 \quad 1 \\ \boxed{2 \quad 4 \quad 3} \quad 73 \end{array}$ ^K

$\begin{array}{r} 25 \quad 5 \quad 1 \\ \boxed{4 \quad 4 \quad 4} \quad 124 \end{array}$

$\begin{array}{r} 25 \quad 5 \quad 1 \\ \boxed{3 \quad 0 \quad 4} \quad 79 \end{array}$ ^L

$\begin{array}{r} 25 \quad 5 \quad 1 \\ \boxed{1 \quad 4 \quad 2} \quad 47 \end{array}$ ^M

$\begin{array}{r} 25 \quad 5 \quad 1 \\ \boxed{3 \quad 4 \quad 1} \quad 96 \end{array}$

$\begin{array}{r} 25 \quad 5 \quad 1 \\ \boxed{4 \quad 2 \quad 2} \quad 112 \end{array}$ ^K

$\begin{array}{r} 25 \quad 5 \quad 1 \\ \boxed{3 \quad 3 \quad 3} \quad 93 \end{array}$ ^L

$\begin{array}{r} 25 \quad 5 \quad 1 \\ \boxed{0 \quad 4 \quad 4} \quad 24 \end{array}$

$\begin{array}{r} 25 \quad 5 \quad 1 \\ \boxed{2 \quad 3 \quad 0} \quad 65 \end{array}$ ^M

$\begin{array}{r} 25 \quad 5 \quad 1 \\ \boxed{3 \quad 0 \quad 0} \quad 75 \end{array}$

$\begin{array}{r} 25 \quad 5 \quad 1 \\ \boxed{2 \quad 4 \quad 4} \quad 74 \end{array}$ ^M

	K	L	M
A	750	45	1,42
B	60	3,04	900
C	^{R13} 46	1,050	75
D	1,200	90	2,30
E	4,22	1,350	105
F	120	^{R7} 12	24,4
G	^{R11} 64	^{R14} 30	135
H	24,3	300	^{R2} 86
I	^{R6} 57	450	4,13
J	600	3,3,3	^{R1} 93

13's

4	4	4	3	9
1	6	1	1	4
5	7	3	4	3
5	3	5	2	6
5	6	2	9	2

14's

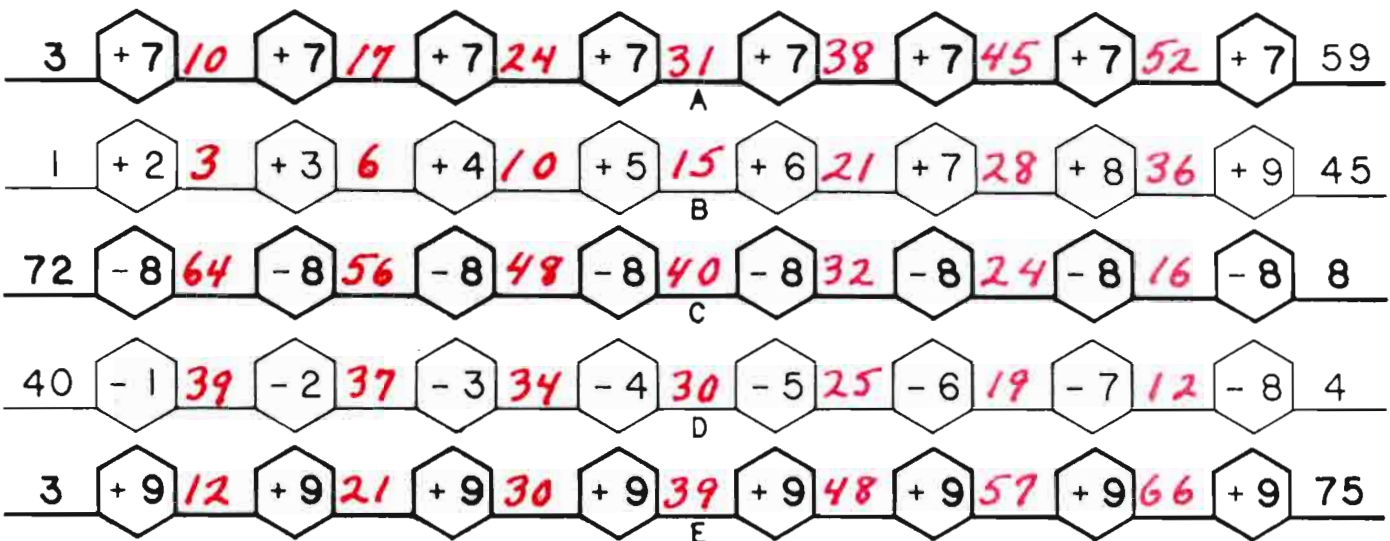
3	5	7	2	5
6	1	7	5	8
4	6	5	9	1
7	3	4	5	2
5	3	3	3	3

15's

7	6	5	4	4
1	3	4	6	7
1	3	6	8	4
6	3	9	3	4
8	7	4	4	3

Chain Reactions

Reacción en cadena



$$47 = \underline{6 \times 7} + \underline{5} \quad \text{F} \quad 44 = \underline{8 \times 5} + \underline{4} \quad \text{F}$$

$$65 = \underline{8 \times 8} + \underline{1} \quad \text{G} \quad 59 = \underline{6 \times 9} + \underline{5} \quad \text{G}$$

$$65 = \underline{9 \times 7} + \underline{2} \quad \text{A} \quad 59 = \underline{7 \times 8} + \underline{3} \quad \text{A}$$

$$38 = \underline{7 \times 5} + \underline{3} \quad \text{B} \quad 49 = \underline{9 \times 5} + \underline{4} \quad \text{B}$$

$$50 = \underline{8 \times 6} + \underline{2} \quad \text{C} \quad 39 = \underline{6 \times 6} + \underline{3} \quad \text{C}$$

$$50 = \underline{7 \times 7} + \underline{1} \quad \text{D} \quad 89 = \underline{9 \times 9} + \underline{8} \quad \text{D}$$

$$75 = \underline{8 \times 9} + \underline{3} \quad \text{E} \quad 35 = \underline{4 \times 8} + \underline{3} \quad \text{E}$$

	H	I	J
A	2	3	31
B	4	15	3
C	40	2	3
D	1	30	8
E	3	39	3
F	5	7	4
G	8	5	1

Addition
and
Subtraction

Sumar
y
Restar

$$\boxed{29} - \frac{43}{15} = \boxed{14}$$

$$\boxed{30} - \frac{50}{10} = \boxed{20}$$

$$\boxed{15} - \frac{23}{7} = \boxed{8}$$

$$\boxed{20} - \frac{37}{3} = \boxed{17}$$

$$\boxed{35} - \frac{43}{27} = \boxed{8}$$

$$\boxed{31} - \frac{50}{12} = \boxed{19}$$

$$\boxed{18} - \frac{23}{13} = \boxed{5}$$

$$\boxed{25} - \frac{37}{13} = \boxed{12}$$

$$\boxed{26} - \frac{43}{9} = \boxed{17}$$

$$\boxed{26} - \frac{50}{2} = \boxed{24}$$

$$\boxed{13} - \frac{23}{3} = \boxed{10}$$

$$\boxed{31} - \frac{37}{25} = \boxed{6}$$

$$\boxed{23} - \frac{43}{3} = \boxed{20}$$

$$\boxed{42} - \frac{50}{34} = \boxed{8}$$

$$\begin{array}{r} 312 \\ 312 \\ + 312 \\ \hline 936 \end{array} \text{A}$$

$$\begin{array}{r} 468 \\ 468 \\ + 468 \\ \hline 1,404 \end{array} \text{B}$$

$$\begin{array}{r} 1,425 \\ 1,425 \\ + 1,425 \\ \hline 4,275 \end{array} \text{C}$$

$$\begin{array}{r} 72,416 \\ 72,416 \\ + 72,416 \\ \hline 217,248 \end{array} \text{D}$$

$$\begin{array}{r} 234 \\ 234 \\ + 234 \\ \hline 702 \end{array} \text{A}$$

$$\begin{array}{r} 957 \\ 957 \\ + 957 \\ \hline 2,871 \end{array} \text{B}$$

$$\begin{array}{r} 8239 \\ 8239 \\ + 8239 \\ \hline 24,717 \end{array} \text{C}$$

$$\begin{array}{r} 98236 \\ 98236 \\ + 98236 \\ \hline 294,708 \end{array} \text{D}$$

$\begin{array}{r} 25 \\ \times 1 \\ \hline 25 \end{array}$	$\begin{array}{r} 25 \\ \times 2 \\ \hline 50 \end{array}$	$\begin{array}{r} 25 \\ \times 4 \\ \hline 100 \end{array}$	$\begin{array}{r} 25 \\ \times 7 \\ \hline 175 \end{array}$	$\begin{array}{r} 25 \\ \times 8 \\ \hline 200 \end{array}$
D	E	F	G	

$\begin{array}{r} 25 \\ \times 20 \\ \hline 500 \end{array}$	$\begin{array}{r} 25 \\ \times 30 \\ \hline 750 \end{array}$	$\begin{array}{r} 25 \\ \times 50 \\ \hline 1,250 \end{array}$	$\begin{array}{r} 25 \\ \times 60 \\ \hline 1,500 \end{array}$	$\begin{array}{r} 25 \\ \times 90 \\ \hline 2,250 \end{array}$
C	D	E	F	G

$$3 \overline{) 174} \begin{array}{r} 58 \\ \hline \end{array} \text{E}$$

$$7 \overline{) 1827} \begin{array}{r} 261 \\ \hline \end{array} \text{F}$$

$$8 \overline{) 1656} \begin{array}{r} 207 \\ \hline \end{array} \text{G}$$

$$25 \overline{) 925} \begin{array}{r} 37 \\ \hline 750 \\ \hline 175 \\ \hline 175 \\ \hline \end{array} \text{E}$$

$$25 \overline{) 1300} \begin{array}{r} 52 \\ \hline 1250 \\ \hline 50 \\ \hline 50 \\ \hline \end{array} \text{F}$$

$$25 \overline{) 2425} \begin{array}{r} 97 \\ \hline 2250 \\ \hline 175 \\ \hline 175 \\ \hline \end{array} \text{G}$$

	H	I	J	K
A	902	842	936	702
B	2871	1,404	2,173	1,324
C	4,275	500	$\frac{24}{717}$	3,695
D	750	$\frac{294}{708}$	50	$\frac{217}{248}$
E	100	58	1,250	37
F	261	1,500	175	52
G	200	97	207	2,250

CHAIN REACTIONS

REACCIÓN EN CADENA

5 15 15 9

40 $\div 8$ $\times 6$ 30 $\div 2$ $\div 3$ 5 $\times 3$ $\times 3$ 45 $\div 5$ $\div 3$ 3

9 36 42 7 28

36 $\div 4 \times 8$ 72 $\div 2 \div 6$ 6 $\times 7 \div 2$ 21 $\div 3 \times 8$ 56 $\div 2 \div 4$ 7

K

14 4 12 8 20

7 $\times 2 \times 2$ 28 $\div 7 \times 9$ 36 $\div 3 \div 3$ 4 $\times 2 \times 5$ 40 $\div 2 \div 4$ 5

F

21 14 21 9 15

63 $\div 3 \div 3$ 7 $\times 2 \times 3$ 42 $\div 2 \div 7$ 3 $\times 3 \times 5$ 45 $\div 3 \div 3$ 5

H

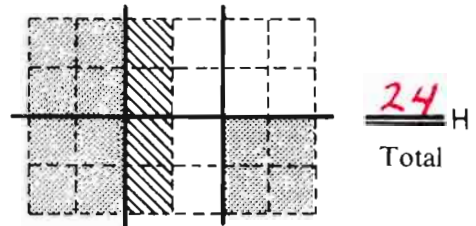
Please use the smallest whole numbers

Favor de usar los números más pequeños

16	8	4	2	1	7	F	27	9	3	1	25	A	25	5	1	48	I
0	0	1	1	1	7	F	0	2	2	1	25	A	1	4	3	48	I
16	8	4	2	1	14	J	27	9	3	1	50	A	25	5	1	67	F
0	1	1	1	0	14	J	1	2	1	2	50	A	2	3	2	67	F
16	8	4	2	1	23	K	27	9	3	1	69	A	25	5	1	98	I
1	0	1	1	1	23	K	2	1	2	0	69	A	3	4	3	98	I

$\frac{1}{3}$ of 24 = 8 B

$\frac{1}{2}$ x 24 = 12 C



$\frac{1}{6}$ x 24 = 4 I $\frac{5}{6}$ x 24 = 20 J $\frac{6}{6}$ x 24 = 24 J

$\frac{1}{4}$ x 24 = 6 J $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$ B $\frac{3}{4} - \frac{1}{2} = \frac{1}{4}$ K

$\frac{2}{3}$ x 24 = 16 D $\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$ C $\frac{5}{6} - \frac{1}{3} = \frac{1,3}{2,6}$

$\frac{3}{4}$ x 24 = 18 E $\frac{1}{6} + \frac{1}{3} = \frac{1,3}{2,6}$ $\frac{5}{6} - \frac{1}{2} = \frac{1,2}{3,6}$ C

	H	I	J	K
A	2,2,1	0,2,2,1	2,1,2,0	1,2,1,2
B	$\frac{2}{3}$	8	6	$\frac{1}{4}$
C	$\frac{1}{3}, \frac{2}{6}$	4	12	$\frac{3}{4}$
D	17	20	16	5
E	42	18	24	6
F	36	3,4,3	0,0,1,1	2,3,2
G	24	1,4,3	0,1,1,0	1,0,1,1

Please use the "smallest numbers" under the arrows

Favor de usar "los números más pequeños" debajo de las flechas.

$$\begin{array}{|c|c|} \hline 2 & 6 \\ \hline 9 & 4 \\ \hline \end{array} + \begin{array}{l} 12 \\ 36 \\ \hline \end{array} = \begin{array}{l} 48 \\ \hline \end{array}$$

B

$$\begin{array}{|c|c|} \hline 3 & 7 \\ \hline 8 & 3 \\ \hline \end{array} + \begin{array}{l} 21 \\ 24 \\ \hline \end{array} = \begin{array}{l} 45 \\ \hline \end{array}$$

C

$$\begin{array}{|c|c|} \hline 4 & 6 \\ \hline 7 & 5 \\ \hline \end{array} + \begin{array}{l} 24 \\ 35 \\ \hline \end{array} = \begin{array}{l} 59 \\ \hline \end{array}$$

D

$$\begin{array}{|c|c|} \hline 5 & 3 \\ \hline 6 & 3 \\ \hline \end{array} + \begin{array}{l} 15 \\ 18 \\ \hline \end{array} = \begin{array}{l} 33 \\ \hline \end{array}$$

E

$$\begin{array}{|c|c|} \hline 2 & 7 \\ \hline 9 & 3 \\ \hline \end{array} + \begin{array}{l} 14 \\ 27 \\ \hline \end{array} = \begin{array}{l} 41 \\ \hline \end{array}$$

C

$$\begin{array}{|c|c|} \hline 3 & 5 \\ \hline 8 & 4 \\ \hline \end{array} + \begin{array}{l} 15 \\ 32 \\ \hline \end{array} = \begin{array}{l} 47 \\ \hline \end{array}$$

B

$$\begin{array}{|c|c|} \hline 4 & 6 \\ \hline 7 & 4 \\ \hline \end{array} + \begin{array}{l} 24 \\ 28 \\ \hline \end{array} = \begin{array}{l} 52 \\ \hline \end{array}$$

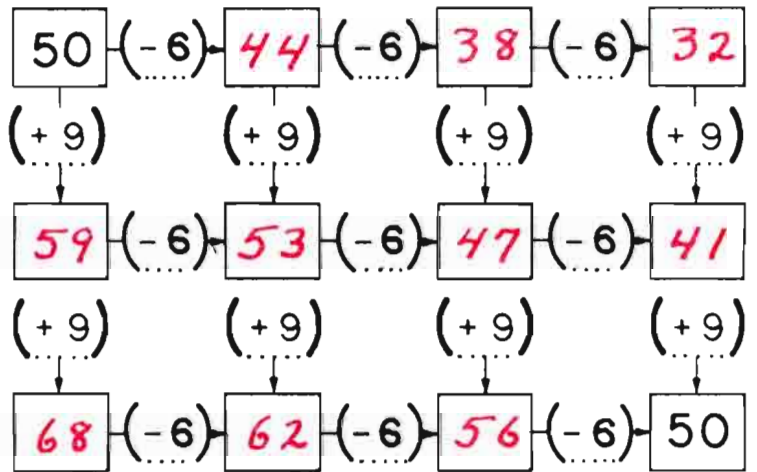
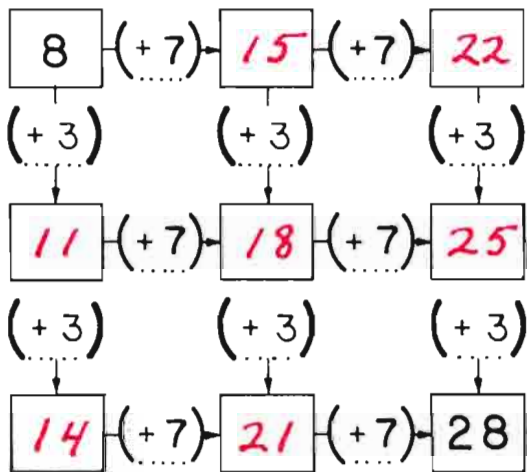
D

$$\begin{array}{|c|c|} \hline 5 & 5 \\ \hline 6 & 3 \\ \hline \end{array} + \begin{array}{l} 25 \\ 18 \\ \hline \end{array} = \begin{array}{l} 43 \\ \hline \end{array}$$

E

TWO-WAY Chain Reactions

Reacción en Cadena en DOS MANERAS.



$\begin{array}{r} 18 \\ \times 1 \\ \hline 18 \end{array}$	$\begin{array}{r} 18 \\ \times 2 \\ \hline 36 \end{array}$	$\begin{array}{r} 18 \\ \times 4 \\ \hline 72 \end{array}$	$\begin{array}{r} 18 \\ \times 7 \\ \hline 126 \end{array}$	$\begin{array}{r} 18 \\ \times 8 \\ \hline 144 \end{array}$
	F	G	I	

$\begin{array}{r} 18 \\ \times 20 \\ \hline 360 \end{array}$	$\begin{array}{r} 18 \\ \times 30 \\ \hline 540 \end{array}$	$\begin{array}{r} 18 \\ \times 50 \\ \hline 900 \end{array}$	$\begin{array}{r} 18 \\ \times 60 \\ \hline 1080 \end{array}$	$\begin{array}{r} 18 \\ \times 90 \\ \hline 1620 \end{array}$
	K	F	G	H

$$\begin{array}{r} 18 \\ \times 21 \\ \hline 360 \\ \hline 378 \end{array}$$

H

$$\begin{array}{r} 18 \\ \times 96 \\ \hline 108 \\ \hline 1620 \\ \hline 1728 \end{array}$$

E

$$\begin{array}{r} 18 \\ \times 38 \\ \hline 144 \\ \hline 540 \\ \hline 684 \end{array}$$

J

$$\begin{array}{r} 18 \\ \times 57 \\ \hline 126 \\ \hline 900 \\ \hline 1026 \end{array}$$

D

$$\begin{array}{r} 18 \\ \times 52 \\ \hline 36 \\ \hline 900 \\ \hline 936 \end{array}$$

D

$$\begin{array}{r} 18 \\ \times 64 \\ \hline 72 \\ \hline 108 \\ \hline 1152 \end{array}$$

H

	H	I	J	K
A	880	7,2	420	6,5
B	44	6,4	486	5,4
C	378	5,4	684	7,3
D	1,026	6,5	936	6,4
E	1,152	5,3	1,728	3,3
F	1,620	7,2	410	9,00
G	1,080	14,4	126	5,40

Loop Arithmetic

Aritmética de lazo

$\begin{matrix} 3 & 3 & 3 \\ 4 & 4 & 4 \end{matrix}$ (17) ^E	$\begin{matrix} 5 & 5 & 5 & 5 \\ 8 & 8 & 8 & 8 \end{matrix}$ (47) ^F	$\begin{matrix} 4 & 4 & 4 & 4 \\ 9 & 9 & 9 & 9 \end{matrix}$ (25) ^F
$\begin{matrix} 5 & 5 & 5 \\ 9 & 9 & 9 \end{matrix}$ (32) ^G	$\begin{matrix} 8 & 8 & 8 \\ 5 & 5 & 5 \end{matrix}$ (31) ^A	$\begin{matrix} 7 & 7 & 7 & 7 \\ 3 & 3 & 3 & 3 \end{matrix}$ (34) ^K
$\begin{matrix} 4 & 4 & 4 \\ 7 & 7 & 7 \end{matrix}$ (19) ^H	$\begin{matrix} 6 & 6 & 6 \\ 5 & 5 & 5 \end{matrix}$ (22) ^I	$\begin{matrix} 2 & 2 & 2 & 2 \\ 9 & 9 & 9 & 9 \end{matrix}$ (26) ^A
	$\begin{matrix} 3 & 3 & 3 & 3 \\ 8 & 8 & 8 & 8 \end{matrix}$ (41) ^G	

Please extend the patterns

Favor de extender las muestras.

0	1	1	2	3	5	8	13	21	34	55	89	144	233
5	11	17	23	29	35	41	47	53	59	65	71	77	83
5	12	19	26	33	40	47	54	61	68	75	82	89	96
5	13	21	29	37	45	53	61	69	77	85	93	101	109
5	14	23	32	41	50	59	68	77	86	95	104	113	122

$\frac{1}{2}$ of 36 = 18 B

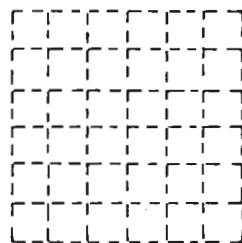
$\frac{1}{3}$ x 36 = 12 K

$\frac{1}{4}$ x 36 = 9 C

$\frac{1}{6}$ x 36 = 6 D

$\frac{1}{9}$ x 36 = 4 J

$\frac{2}{3}$ x 36 = 24 K



36 I
Total

$\frac{3}{4}$ x 36 = 27 C

$\frac{5}{9}$ x 36 = 20 D

$\frac{1}{4} + \frac{1}{2} = \frac{3}{4}$	$\frac{1}{3} - \frac{1}{6} = \frac{1}{6}$
$\frac{1}{3} + \frac{1}{6} = \frac{1}{2} + \frac{1}{6}$	$\frac{2}{3} - \frac{1}{3} = \frac{1}{3}$
$\frac{1}{6} + \frac{1}{6} = \frac{1}{3} + \frac{1}{6}$	$\frac{5}{9} - \frac{4}{9} = \frac{1}{9}$

	H	I	J	K
A	13	32	8.8 5.55	2222 99
B	29	36	18	24
C	41	27	9	12
D	53	20	4	6
E	9	6.6 5.5	3.33 4.4	7.777 3.3
F	4.4.4 7	5.55 8.888	6.666 7.7	4.4.4.4 9
G	26	3.3.3 8.8.8.8	5 9.9.9	7.7.7 8.8.8

16's

5	2	2	4	3
11	3	7	2	7
2	9	3	4	5
5	4	4	4	5
8	3	4	5	1

17's

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

18's

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

DOMINO PUZZLES

ROMPECABEZAS DE DOMINOS

38 57

30	7	37
50	8	58
<u>80 + 15 = 95</u> _A		

29 36

20	6	26
30	9	39
<u>50 + 15 = 65</u> _B		

89 13

80	3	83
10	9	19
<u>90 + 12 = 102</u> _C		

$\begin{array}{r} 37 \\ \times 1 \\ \hline 37 \end{array}$	$\begin{array}{r} 37 \\ \times 2 \\ \hline 74 \end{array}$	$\begin{array}{r} 37 \\ \times 4 \\ \hline 148 \end{array}$	$\begin{array}{r} 37 \\ \times 7 \\ \hline 259 \end{array}$	$\begin{array}{r} 37 \\ \times 8 \\ \hline 296 \end{array}$
H	K	I	C	H

$\begin{array}{r} 37 \\ \times 20 \\ \hline 740 \end{array}$	$\begin{array}{r} 37 \\ \times 30 \\ \hline 1110 \end{array}$	$\begin{array}{r} 37 \\ \times 50 \\ \hline 1850 \end{array}$	$\begin{array}{r} 37 \\ \times 60 \\ \hline 2220 \end{array}$	$\begin{array}{r} 37 \\ \times 90 \\ \hline 3330 \end{array}$
E				

$$\begin{array}{r} 37 \\ \times 51 \\ \hline 37 \\ 1850 \\ \hline 1887 \end{array}$$
 _D

$$\begin{array}{r} 37 \\ \times 18 \\ \hline 296 \\ 370 \\ \hline 666 \end{array}$$
 _E

$$\begin{array}{r} 37 \\ \times 23 \\ \hline 111 \\ 740 \\ \hline 851 \end{array}$$
 _F

$$\begin{array}{r} 37 \\ \times 62 \\ \hline 74 \\ 2220 \\ \hline 2294 \end{array}$$
 _G

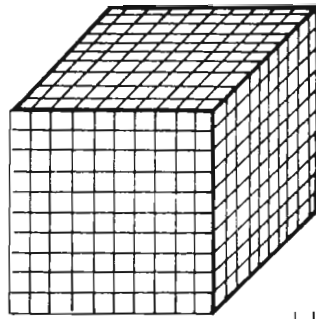
$$\begin{array}{r} 37 \\ \times 37 \\ \hline 259 \\ 1110 \\ \hline 1369 \end{array}$$
 _J

$$\begin{array}{r} 37 \\ \times 94 \\ \hline 148 \\ 3330 \\ \hline 3478 \end{array}$$
 _D

	H	I	J	K
A	95	85	106	74
B	37	75	65	83
C	296	148	102	259
D	2567	3478	1887	2918
E	1,111	740	666	1,578
F	2245	851	1,369	1,001
G	849	2294	2,174	643

$$\begin{array}{r} 1,166 \\ + 108 \\ \hline 1,274 \end{array}$$

$$\begin{array}{r} 166 \\ + 783 \\ \hline 949 \end{array}$$



$$\begin{array}{r} 1,166 \\ - 159 \\ \hline 1,007 \end{array}$$

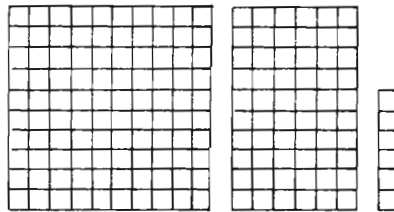
$$\begin{array}{r} 1,166 \\ - 77 \\ \hline 1,089 \end{array}$$

$$\begin{array}{r} 1,083 \\ + 83 \\ \hline 1,166 \end{array}$$

$$\begin{array}{r} 1,166 \\ + 1,999 \\ \hline 3,165 \end{array}$$

$$\begin{array}{r} 166 \\ 166 \\ 166 \\ + 166 \\ \hline 664 \end{array}$$

$$\begin{array}{r} 367 \\ 82 \\ 197 \\ + 56 \\ \hline 702 \end{array}$$



$$\begin{array}{r} 2,166 \\ - 729 \\ \hline 1,437 \end{array}$$

$$\begin{array}{r} 7,166 \\ - 1,598 \\ \hline 5,568 \end{array}$$

$$\begin{array}{r} 1,166 \\ \div 2 \\ \hline 583 \end{array}$$

$$\begin{array}{r} 1,166 \\ \times 2 \\ \hline 2,332 \end{array}$$

13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
$\times 2$	$\times 3$	$\times 4$	$\times 5$	$\times 6$	$\times 7$	$\times 8$	$\times 9$	$\times 10$	$\times 20$	$\times 30$	$\times 40$	$\times 50$	$\times 60$	
26	39	52	65	78	91	104	117	130	260	390	520	650	780	

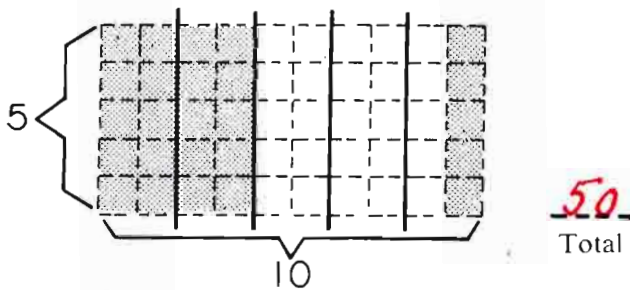
$$\begin{array}{r} 13 \\ \times 49 \\ \hline 117 \\ 520 \\ \hline 637 \end{array}$$

$$\begin{array}{r} 13 \\ \times 25 \\ \hline 65 \\ 26 \\ \hline 325 \end{array}$$

$$\begin{array}{r} 13 \\ \times 67 \\ \hline 91 \\ 78 \\ \hline 871 \end{array}$$

$$\begin{array}{r} 13 \\ \times 58 \\ \hline 104 \\ 65 \\ \hline 754 \end{array}$$

$6 \overline{)45} \begin{matrix} 7R^3 \\ \end{matrix}$	$7 \overline{)50} \begin{matrix} 7R^1 \\ \end{matrix}$	$8 \overline{)60} \begin{matrix} 7R^4 \\ \end{matrix}$	$9 \overline{)75} \begin{matrix} 8R^3 \\ \end{matrix}$
$6 \overline{)65} \begin{matrix} 10R^5 \\ \end{matrix}$	$7 \overline{)67} \begin{matrix} 9R^4 \\ \end{matrix}$	$8 \overline{)75} \begin{matrix} 9R^3 \\ \end{matrix}$	$9 \overline{)50} \begin{matrix} 5R^5 \\ \end{matrix}$
$6 \overline{)33} \begin{matrix} 5R^3 \\ \end{matrix}$	$7 \overline{)57} \begin{matrix} 8R^1 \\ \end{matrix}$	$8 \overline{)65} \begin{matrix} 8R^1 \\ \end{matrix}$	$9 \overline{)85} \begin{matrix} 9R^4 \\ \end{matrix}$



$$\frac{2}{5} \text{ of } 50 = 20$$

$$\frac{1}{2} \times 50 = 25$$

$$\frac{1}{10} \times 50 = 5$$

$$\frac{1}{10} + \frac{2}{5} = \frac{1+4}{10} = \frac{5}{10}$$

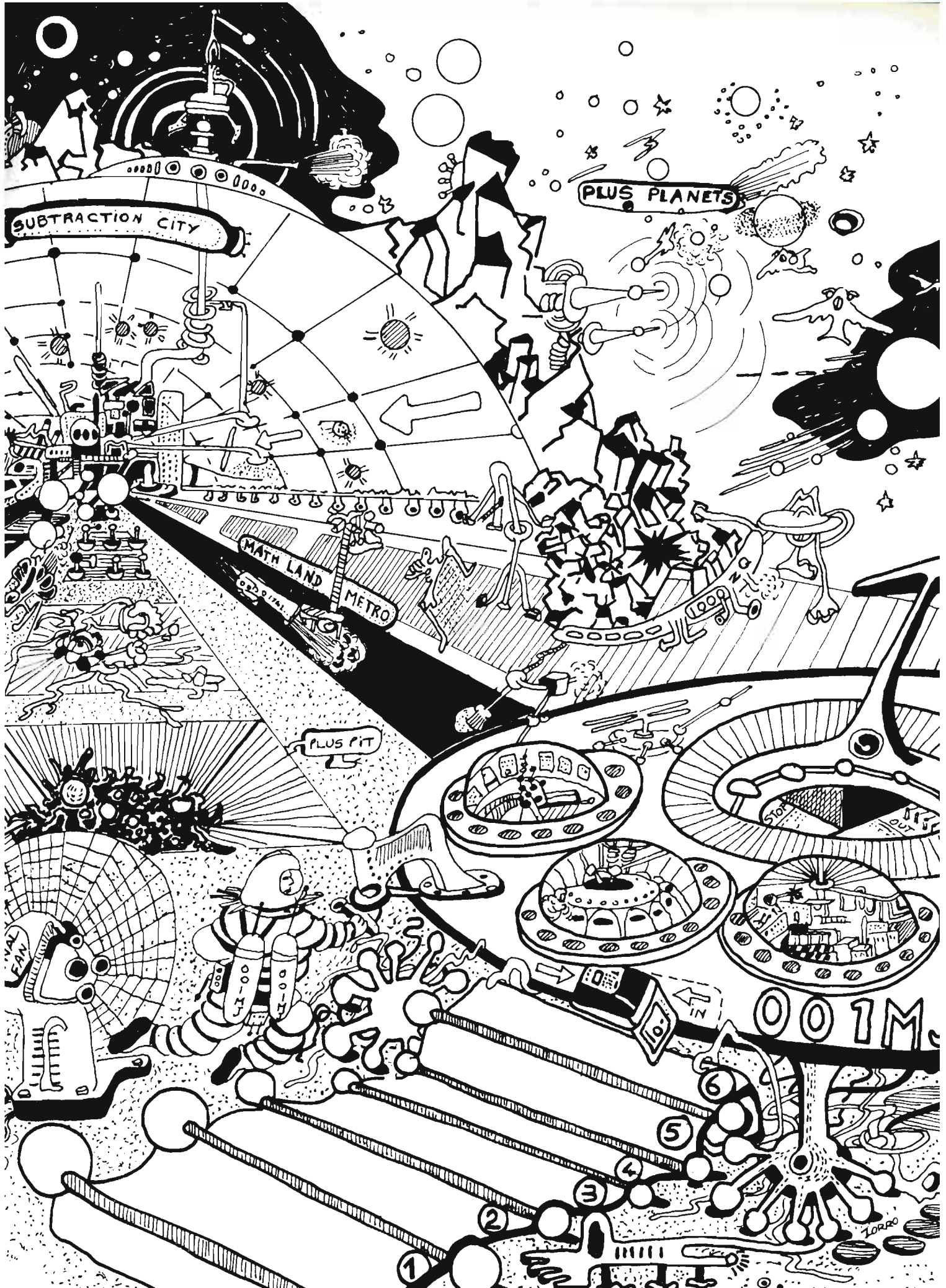
$$N = 2 \frac{1}{2} \text{ } \phi$$

1 Hr...150miles

N	total
4¢	10¢
10¢	25¢
36¢	90¢
60¢	\$ 1.50
50¢	\$ 1.25

Hrs.	miles
$\frac{1}{2}$	75
$\frac{1}{5}$	30
$1 \frac{1}{10}$	165





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