

answers &
annotations



levels d·e·f

for use with INDIVIDUALIZED COMPUTATION

MY PROGRESS BOOK

er Art

First/Second grade class of Elaine Greene at
r School.

Editor and General Manager
ROBERT BECK

Art and Production Manager
LIESELOTTE ESSER

©1974, CURRICULUM DEVELOPMENT ASSOCIATES, INC.
Suite 414 • 1211 Connecticut Ave., N.W.
Washington, D.C. 20036

FENCE ARITHMETIC

ARITMETICA USANDO CERCAS

2	5	3	2
7	1	4	4
2	2	6	4
1	3	2	2

5 (10's)

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

6 (11's)

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

6 (12's)

3	4	5	4
4	6	1	5
3	7	6	4
3	3	4	3

5 (13's)

5	2	7	6
3	7	7	1
7	4	5	3
3	3	3	4

5 (14's)

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

5 (15's)

CHAIN REACTIONS

REACCIÓN EN CADENA

7 (+4) 11 (+4) 15 (+4) 19 (+4) 23 (-5) 18 (-5) 13 (-5) 8 (-5) 3

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

0 (+1) 1 (+2) 3 (+3) 6 (+4) 10 (+5) 15 (+6) 21

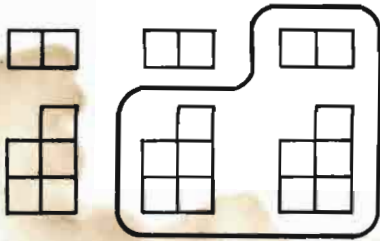
36 (-1) 35 (-2) 33 (-3) 30 (-4) 26 (-5) 21 (-6) 15



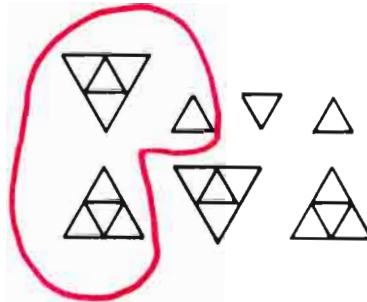
How do you feel?
¿Cómo se siente?

"IN and OUT"

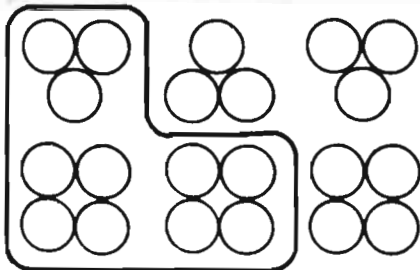
"AFUERA y ADENTRO"



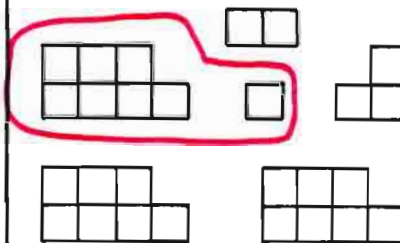
21 Total
12 In
9 Out



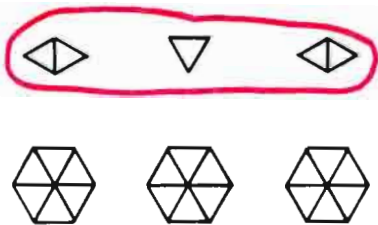
19 Total
9 Adentro
10 Afuera



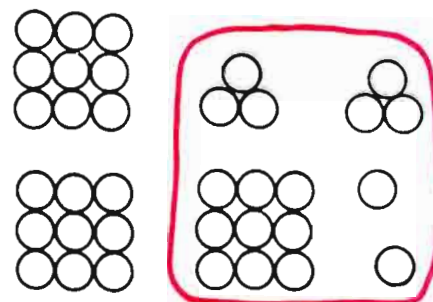
21
11
10



27
8
19



23
5
18



35
17
18

FENCE ARITHMETIC

ARITMETICA USANDO CERCAS



How do you feel?
¿Cómo se siente?

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

6 (16's)

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

5 (17's)

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

5 (18's)

$$\begin{array}{r} 9 \\ 3 \quad 4 \quad 7 \\ \hline 5 \quad 6 \quad 11 \\ \hline 8 + 10 = 18 \end{array}$$

7	8	9
<u>+11</u>	<u>+10</u>	<u>+9</u>
18	18	18

$$\begin{array}{r} 14 \\ 9 \quad 7 \quad 16 \\ \hline 6 \quad 5 \quad 11 \\ \hline 15 + 12 = 27 \end{array}$$

16	15	14
<u>+11</u>	<u>+12</u>	<u>+13</u>
27	27	27

$$\begin{array}{r} 13 \\ 6 \quad 8 \quad 14 \\ \hline 5 \quad 7 \quad 12 \\ \hline 11 + 15 = 26 \end{array}$$

14	11	13
<u>+12</u>	<u>+15</u>	<u>+13</u>
26	26	26

$$\begin{array}{r} 19 \\ 10 \quad 7 \quad 17 \\ \hline 20 \quad 9 \quad 29 \\ \hline 30 + 16 = 46 \end{array}$$

17	30	19
<u>+29</u>	<u>+16</u>	<u>+27</u>
46	46	46

$$\begin{array}{r} 36 \\ 30 \quad 6 \quad 36 \\ \hline 20 \quad 6 \quad 26 \\ \hline 50 + 12 = 62 \end{array}$$

36	50	36
<u>+26</u>	<u>+12</u>	<u>+26</u>
62	62	62

$$\begin{array}{r} 24 \\ 20 \quad 9 \quad 29 \\ \hline 50 \quad 4 \quad 54 \\ \hline 70 + 13 = 83 \end{array}$$

29	70	24
<u>+54</u>	<u>+13</u>	<u>+59</u>
83	83	83

CHAIN REACTION

REACCIÓN EN CADENA

6 (+6) 12 (+6) 18 (+6) 24 (+1) 25 (+5) 30 (+5) 35

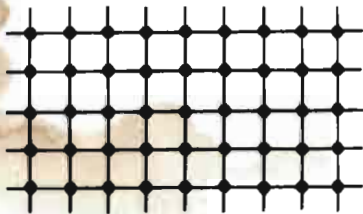
3 (+3) 6 (+3) 9 (+3) 12 (+3) 15 (+3) 18 (+3) 21



How do you feel?
¿Cómo se siente?

More SHORTHAND for the same ideas

Más TAQUIGRAFIA para las mismas ideas



$$45 \div 5 = 9$$

$$45 \div 9 = 5$$

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

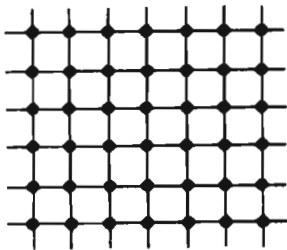
$$\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$$

$$5 \times 9 = 45$$

$$9 \times 5 = 45$$

$$5 \overline{)45}$$

$$9 \overline{)45}$$



$$42 \div 6 = 7$$

$$42 \div 7 = 6$$

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

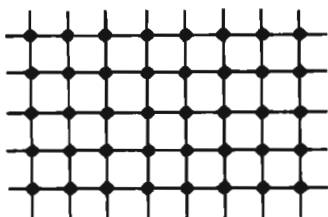
$$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$$

$$7 \times 6 = 42$$

$$6 \times 7 = 42$$

$$6 \overline{)42}$$

$$7 \overline{)42}$$



$$8 \times 5 = 40$$

$$5 \times 8 = 40$$

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

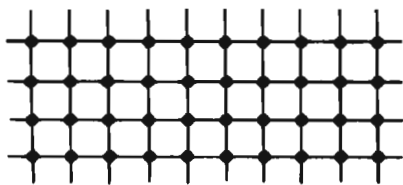
$$\begin{array}{r} 5 \\ \times 8 \\ \hline 40 \end{array}$$

$$40 \div 5 = 8$$

$$40 \div 8 = 5$$

$$5 \overline{)40}$$

$$8 \overline{)40}$$



$$4 \times 10 = 40$$

$$10 \times 4 = 40$$

$$40 \div 10 = 4$$

$$40 \div 4 = 10$$

$$\begin{array}{r} 4 \\ \times 10 \\ \hline 40 \end{array}$$

$$4 \overline{)40}$$

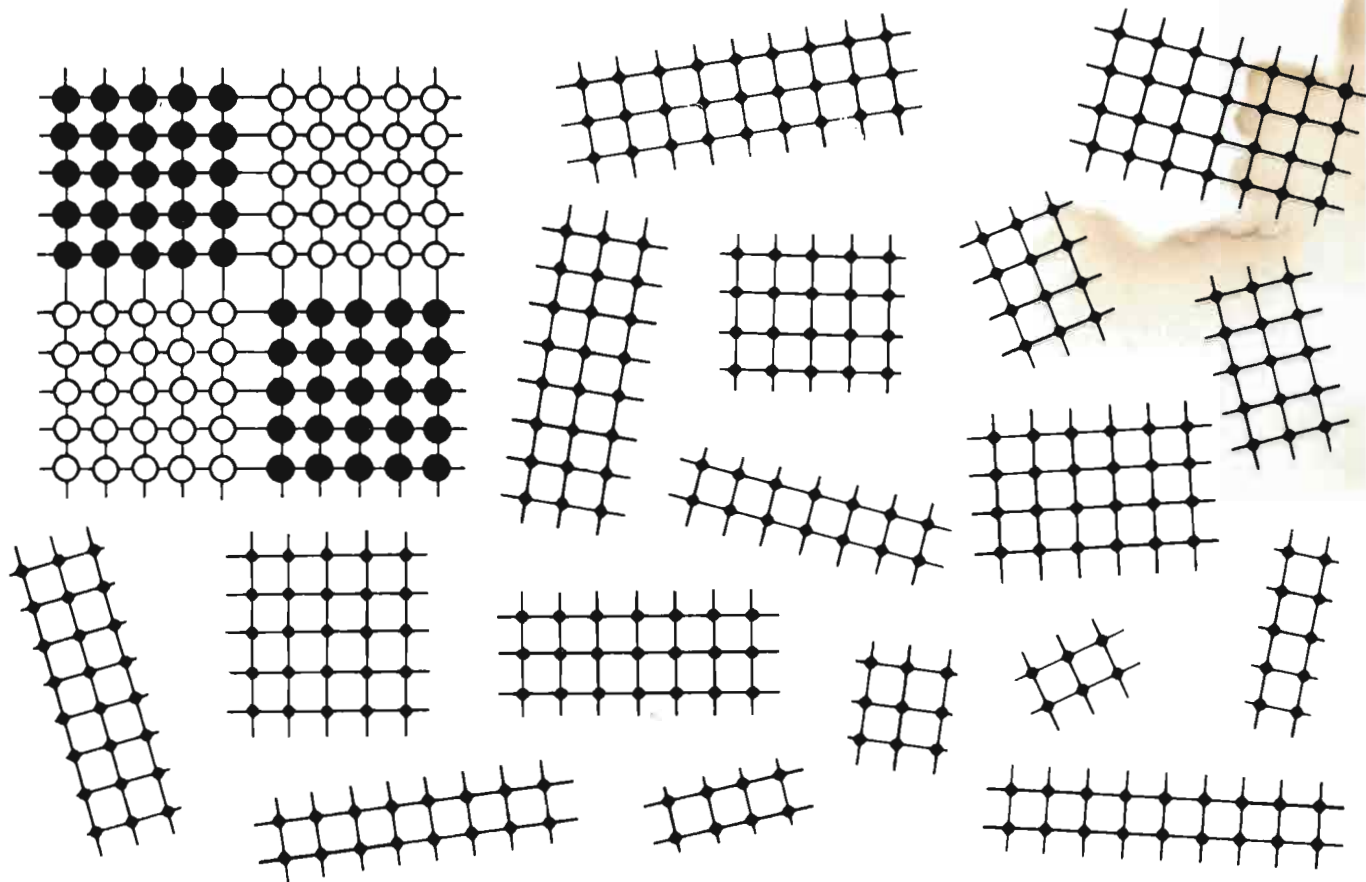
$$\begin{array}{r} 10 \\ \times 4 \\ \hline 40 \end{array}$$

$$10 \overline{)40}$$



How do you feel?
¿Cómo se siente?

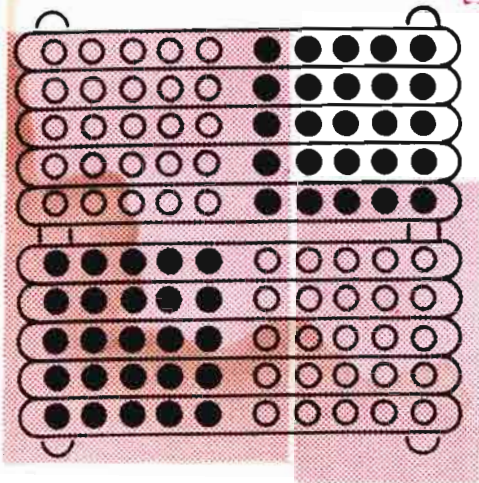
9 (+9) 18 (+9) 27 (+9) 36 (+9) 45 (+9) 54 (+9) 63 (+9) 72 (+9) 81



$\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$	$\begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array}$	$\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$	$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$	$\begin{array}{r} 9 \\ \times 2 \\ \hline 18 \end{array}$	$\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$	$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$
$\begin{array}{r} 3 \\ 5 \overline{)15} \end{array}$	$\begin{array}{r} 4 \\ 6 \overline{)24} \end{array}$	$\begin{array}{r} 4 \\ 3 \overline{)12} \end{array}$	$\begin{array}{r} 4 \\ 7 \overline{)28} \end{array}$	$\begin{array}{r} 4 \\ 4 \overline{)16} \end{array}$	$\begin{array}{r} 6 \\ 5 \overline{)30} \end{array}$	$\begin{array}{r} 3 \\ 6 \overline{)18} \end{array}$
$\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$	$\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$	$\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$	$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$	$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$	$\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$	$\begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array}$
$\begin{array}{r} 7 \\ 3 \overline{)21} \end{array}$	$\begin{array}{r} 7 \\ 4 \overline{)28} \end{array}$	$\begin{array}{r} 5 \\ 5 \overline{)25} \end{array}$	$\begin{array}{r} 6 \\ 4 \overline{)24} \end{array}$	$\begin{array}{r} 4 \\ 5 \overline{)20} \end{array}$		

How do you feel?
¿Cómo se siente?

Here the child may wish to use two cards to fence off the combinations he needs-for example:



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$$

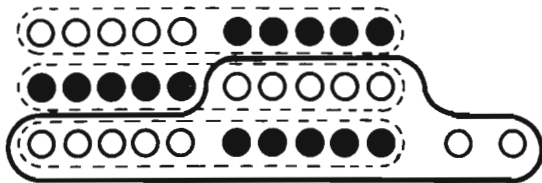
$$\begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array}$$



How do you feel?
¿Cómo se siente?

"OUT and IN"
and Related Examples

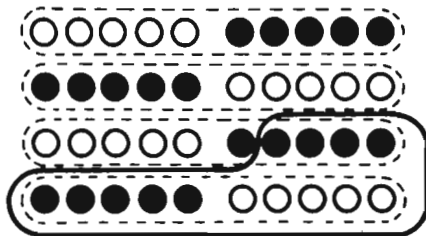
"AFUERA y ADENTRO"
y Ejemplos Relacionados



$$\begin{array}{r} 32 \text{ Total} \\ - 17 \text{ Adentro} \\ \hline 15 \text{ Afuera} \end{array}$$

$$\begin{array}{r} 32 \\ - 15 \\ \hline 17 \end{array} \quad \begin{array}{r} 32 \\ - 12 \\ \hline 20 \end{array} \quad \begin{array}{r} 32 \\ - 3 \\ \hline 29 \end{array}$$

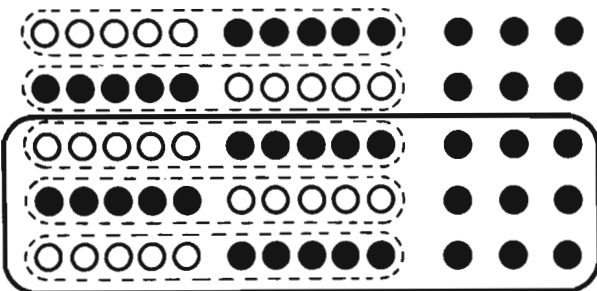
$$\begin{array}{r} 32 \\ + 8 \\ \hline 40 \end{array} \quad \begin{array}{r} 32 \\ + 48 \\ \hline 80 \end{array} \quad \begin{array}{r} 15 \\ + 17 \\ \hline 32 \end{array}$$



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

$$\begin{array}{r} 26 \\ + 15 \\ \hline 41 \end{array} \quad \begin{array}{r} 14 \\ + 26 \\ \hline 40 \end{array} \quad \begin{array}{r} 15 \\ + 27 \\ \hline 42 \end{array}$$

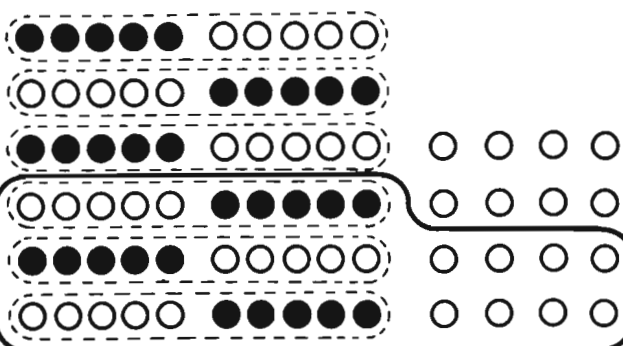
$$\begin{array}{r} 40 \\ - 14 \\ \hline 26 \end{array} \quad \begin{array}{r} 42 \\ - 16 \\ \hline 26 \end{array} \quad \begin{array}{r} 40 \\ - 16 \\ \hline 24 \end{array}$$



$$\begin{array}{r} 26 \\ + 39 \\ \hline 65 \end{array}$$

$$\begin{array}{r} 39 \\ + 11 \\ \hline 50 \end{array} \quad \begin{array}{r} 50 \\ + 15 \\ \hline 65 \end{array} \quad \begin{array}{r} 49 \\ + 16 \\ \hline 65 \end{array}$$

$$\begin{array}{r} 65 \\ - 39 \\ \hline 26 \end{array} \quad \begin{array}{r} 65 \\ - 16 \\ \hline 49 \end{array} \quad \begin{array}{r} 75 \\ - 26 \\ \hline 49 \end{array}$$



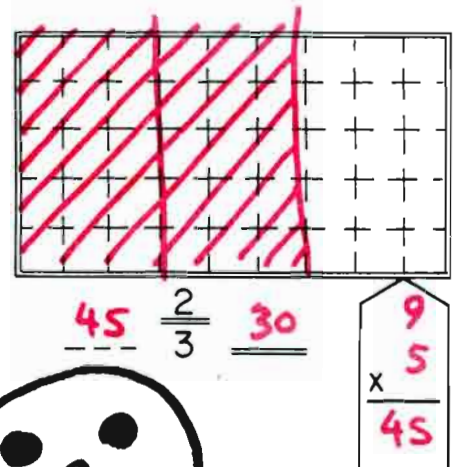
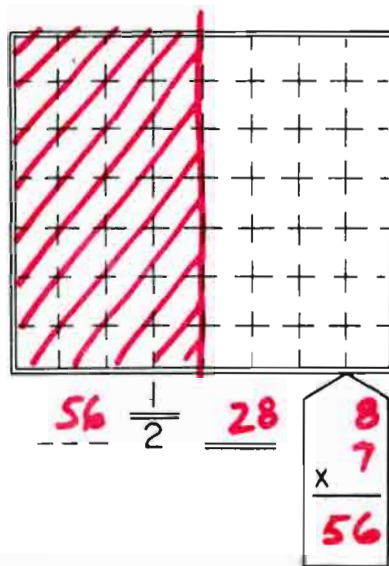
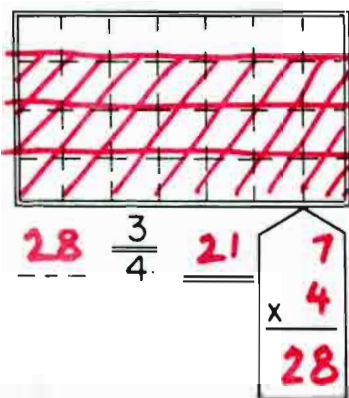
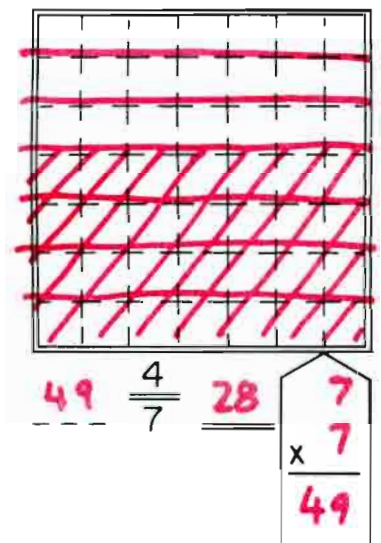
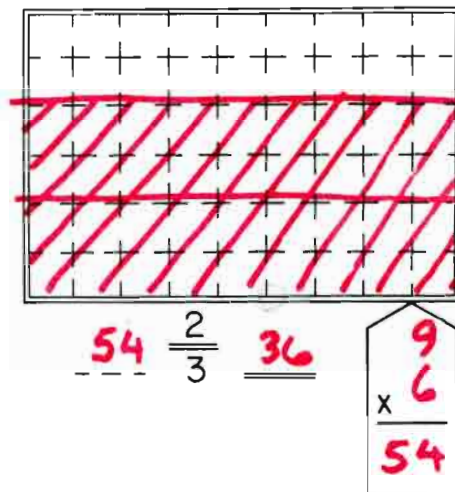
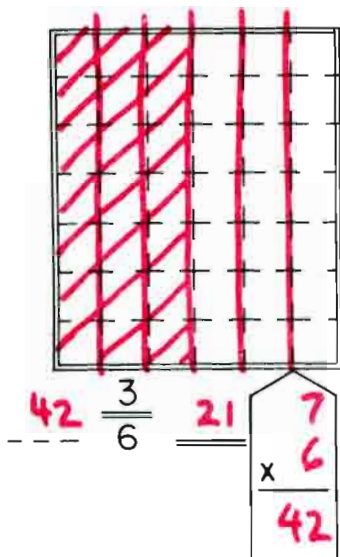
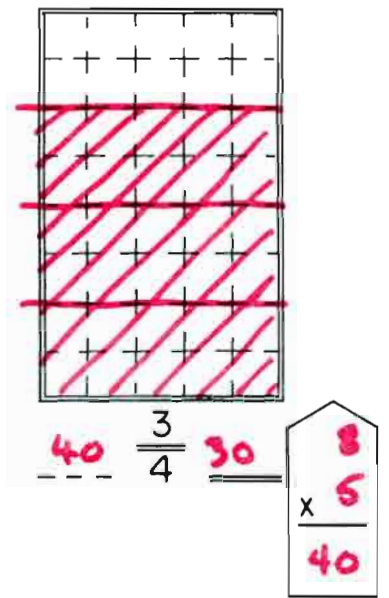
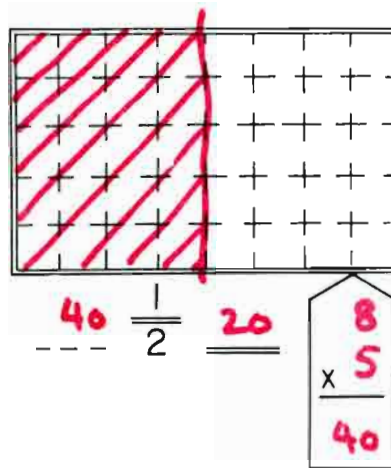
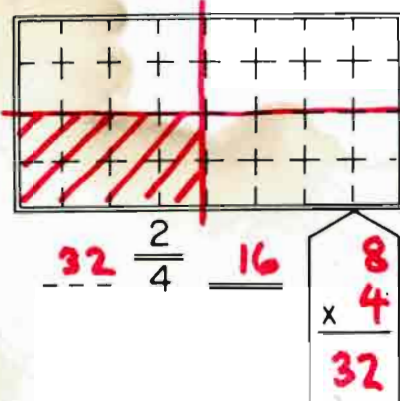
$$\begin{array}{r} 38 \\ + 38 \\ \hline 76 \end{array}$$

$$\begin{array}{r} 39 \\ + 39 \\ \hline 78 \end{array} \quad \begin{array}{r} 29 \\ + 69 \\ \hline 98 \end{array} \quad \begin{array}{r} 39 \\ + 48 \\ \hline 87 \end{array}$$

How do you feel?
¿Cómo se siente?

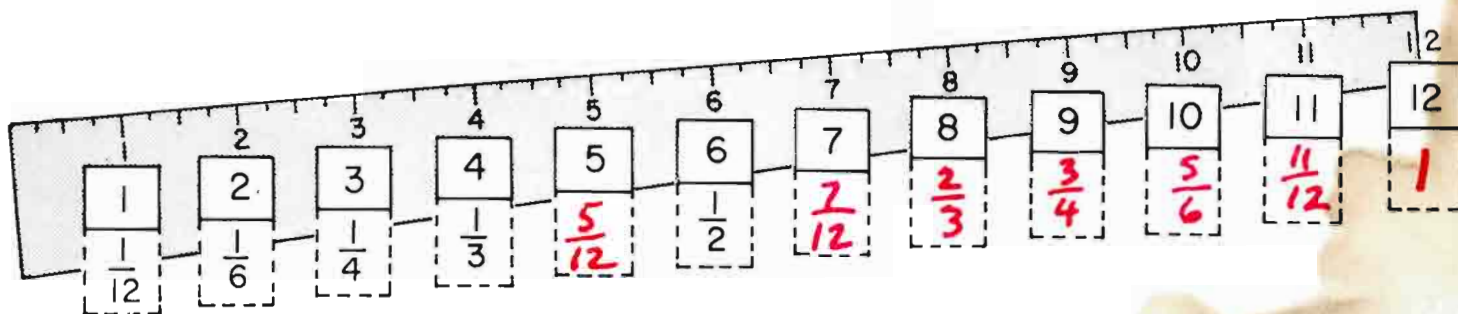


WINDOWS and PANES . . . Tags . . . Bars and Shading



How do you feel?

More "DOUBLE-TALK"



(fraction of 1 foot)

There are $\boxed{12}$ inches
in $\boxed{1}$ foot

$$\frac{1}{4} \text{ foot} = \underline{\underline{3}} \text{ inches}$$

$$\frac{3}{4} \text{ foot} = \underline{\underline{9}} \text{ inches}$$

$$3 \text{ feet} = \underline{\underline{36}} \text{ inches}$$

$$\frac{1}{2} \text{ ft.} = \underline{\underline{6}} \text{ in.}$$

$$\frac{1}{3} \text{ ft.} = \underline{\underline{4}} \text{ in.}$$

$$\frac{2}{3} \text{ ft.} = \underline{\underline{8}} \text{ in.}$$

$$\frac{1}{6} \text{ ft.} = \underline{\underline{2}} \text{ in.}$$

$$\frac{5}{6} \text{ ft.} = \underline{\underline{10}} \text{ in.}$$

$$\frac{1}{12} \text{ ft.} = \underline{\underline{1}} \text{ in.}$$

$$\boxed{6} + \boxed{3} = \boxed{9}$$

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

$$\boxed{6} + \boxed{2} = \boxed{8}$$

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

$$\boxed{2} + \boxed{4} = \boxed{6}$$

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

$$\boxed{4} - \boxed{3} = \boxed{1}$$

$$\frac{1}{3} - \frac{1}{4} = \frac{1}{12}$$

$$\boxed{9} - \boxed{6} = \boxed{3}$$

$$\frac{3}{4} - \frac{1}{2} = \frac{1}{4}$$

$$\boxed{10} - \boxed{8} = \boxed{2}$$

$$\frac{5}{6} - \frac{2}{3} = \frac{1}{6}$$

$$(2 \times) \boxed{3} = \boxed{6}$$

$$\frac{1}{4} = \frac{1}{2}$$

$$(3 \times) \boxed{2} = \boxed{6}$$

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

$$\boxed{8} (\div 2) = \boxed{4}$$

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

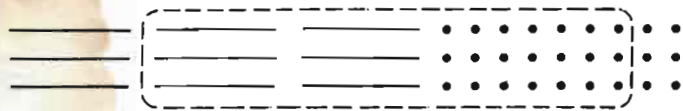
$$\boxed{6} (\div 3) = \boxed{2}$$

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



How do you feel?

BEANSTICK MULTIPLICATION and DIVISION . . . and Related Examples



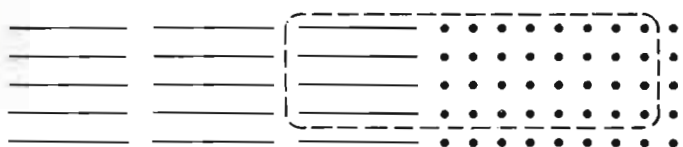
$$\begin{array}{r} 27 \\ 3 \overline{) 81} \end{array}$$

$$\begin{array}{r} 29 \\ 3 \overline{) 87} \end{array}$$

$$\begin{array}{r} 26 \\ 3 \overline{) 78} \end{array}$$

$$\begin{array}{r} 27 \\ 4 \overline{) 108} \end{array}$$

$$\begin{array}{r} 3 \\ 27 \overline{) 81} \end{array}$$



$$\begin{array}{r} 18 \\ 4 \overline{) 72} \end{array}$$

$$\begin{array}{r} 19 \\ 4 \overline{) 76} \end{array}$$

$$\begin{array}{r} 17 \\ 4 \overline{) 68} \end{array}$$

$$\begin{array}{r} 36 \\ 2 \overline{) 72} \end{array}$$

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

Please draw your own sketches.



$$\begin{array}{r} 24 \\ 6 \overline{) 144} \end{array}$$

$$\begin{array}{r} 25 \\ 6 \overline{) 150} \end{array}$$

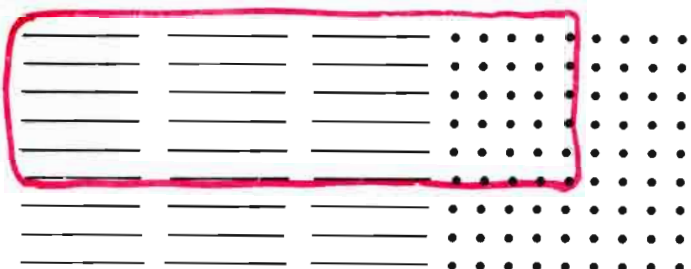
$$\begin{array}{r} 50 \\ 3 \overline{) 150} \end{array}$$

$$\begin{array}{r} 12 \\ 6 \overline{) 72} \end{array}$$

$$\begin{array}{r} 13 \\ 6 \overline{) 78} \end{array}$$

$$\begin{array}{r} 30 \\ 6 \overline{) 180} \end{array}$$

$$\begin{array}{r} 32 \\ 6 \overline{) 192} \end{array}$$



$$\begin{array}{r} 35 \\ 6 \overline{) 210} \end{array}$$

$$\begin{array}{r} 34 \\ 6 \overline{) 204} \end{array}$$

$$\begin{array}{r} 36 \\ 6 \overline{) 216} \end{array}$$

$$\begin{array}{r} 68 \\ 3 \overline{) 204} \end{array}$$

$$\begin{array}{r} 18 \\ 6 \overline{) 108} \end{array}$$

$$\begin{array}{r} 34 \\ 3 \overline{) 102} \end{array}$$

$$\begin{array}{r} 72 \\ 6 \overline{) 432} \end{array}$$



How do you feel ?

Please complete the tables.

There are 12 inches in 1 foot

ft.	$\frac{1}{12}$	$\frac{1}{6}$	$\frac{1}{4}$	$\frac{1}{3}$	$\frac{2}{3}$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{1}{2}$	$\frac{5}{12}$	$\frac{7}{12}$	$\frac{11}{12}$	1	$\frac{1}{3}$
in.	12	6	4	3	2	1.5	1	0.5	0.4167	0.3333	0.25	0.1667	0.125

There are 60 minutes in 1 hour.

hr.	$\frac{1}{60}$	$\frac{1}{30}$	$\frac{1}{20}$	$\frac{1}{15}$	$\frac{1}{12}$	$\frac{1}{10}$	$\frac{1}{8}$	$\frac{1}{6}$	$\frac{1}{5}$	$\frac{1}{4}$	$\frac{1}{3}$	$\frac{1}{2}$	1
m.	60	30	20	15	12	10	8	6	5	4	3	2	1

There are 100 cents in 1 dollar.

\$	$\frac{1}{100}$	$\frac{1}{50}$	$\frac{1}{25}$	$\frac{1}{20}$	$\frac{1}{16}$	$\frac{1}{12}$	$\frac{1}{10}$	$\frac{1}{8}$	$\frac{1}{6}$	$\frac{1}{5}$	$\frac{1}{4}$	$\frac{1}{3}$	1
¢	100	50	25	20	16	12	10	8	6	5	4	3	1

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

$$\frac{3}{4} + \frac{3}{4} = 1\frac{1}{2} \quad \frac{6}{4}$$

$$\frac{1}{6} + \frac{5}{6} = 1 \quad \frac{6}{6}$$

$$\frac{3}{4} - \frac{1}{4} = \frac{1}{2} \quad \frac{2}{4}$$

$$\frac{1}{2} - \frac{1}{5} = \frac{3}{10}$$

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

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

$$\frac{3}{4} - \frac{1}{6} = \frac{7}{12}$$

$$\frac{7}{10} + \frac{1}{10} = \frac{4}{5} \quad \frac{8}{10}$$

$$(5 \times) \frac{1}{10} = \frac{1}{2} \quad \frac{5}{10}$$

$$(2 \times) \frac{3}{4} = 1\frac{1}{2} \quad \frac{6}{4}$$

$$\frac{2}{5} (\div 2) = \frac{1}{5} \quad \frac{2}{10}$$

$$\frac{5}{6} (\div 2) = \frac{5}{12}$$



How do you feel?

"Check List Addition"

Please use the smallest whole numbers possible in the boxes.

128	64	32	16	8	4	2	1	
0	0	1	0	1	0	0	0	40

81	27	9	3	1	
0	1	1	1	1	40

64	16	4	1	
0	2	1	2	38

36	6	1	
0	5	2	32

49	7	1	
0	5	2	37

125	25	5	1	
0	3	2	1	86

64	8	1	
0	7	1	57

81	9	1	
0	7	6	69

128	64	32	16	8	4	2	1	
1	0	0	0	0	1	0	0	132

81	27	9	3	1	
1	0	1	2	2	98

64	16	4	1	
1	2	1	0	100

36	6	1	
2	0	3	75

49	7	1	
1	5	5	89

125	25	5	1	
1	2	1	0	180

64	8	1	
0	7	6	62

81	9	1	
0	8	3	75

128	64	32	16	8	4	2	1	
0	1	0	0	1	1	0	1	77

81	27	9	3	1	
0	2	1	0	0	63

64	16	4	1	
0	3	2	0	56

36	6	1	
2	2	1	85

49	7	1	
2	0	1	99

125	25	5	1	
0	4	4	4	124

64	8	1	
1	7	7	127

81	9	1	
1	8	7	160



How do you feel ?

BUILDING and USING TABLES

$\begin{array}{r} 18 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 18 \\ \times 1 \\ \hline 18 \end{array}$	$\begin{array}{r} 18 \\ \times 2 \\ \hline 36 \end{array}$	$\begin{array}{r} 18 \\ \times 3 \\ \hline 54 \end{array}$	$\begin{array}{r} 18 \\ \times 4 \\ \hline 72 \end{array}$	$\begin{array}{r} 18 \\ \times 5 \\ \hline 90 \end{array}$	$\begin{array}{r} 18 \\ \times 6 \\ \hline 108 \end{array}$	$\begin{array}{r} 18 \\ \times 7 \\ \hline 126 \end{array}$	$\begin{array}{r} 18 \\ \times 8 \\ \hline 144 \end{array}$	$\begin{array}{r} 18 \\ \times 9 \\ \hline 162 \end{array}$
$\begin{array}{r} 18 \\ \times 0 \\ \hline 0 \end{array}$	$\begin{array}{r} 18 \\ \times 10 \\ \hline 180 \end{array}$	$\begin{array}{r} 18 \\ \times 20 \\ \hline 360 \end{array}$	$\begin{array}{r} 18 \\ \times 30 \\ \hline 540 \end{array}$	$\begin{array}{r} 18 \\ \times 40 \\ \hline 720 \end{array}$	$\begin{array}{r} 18 \\ \times 50 \\ \hline 900 \end{array}$	$\begin{array}{r} 18 \\ \times 60 \\ \hline 1080 \end{array}$	$\begin{array}{r} 18 \\ \times 70 \\ \hline 1260 \end{array}$	$\begin{array}{r} 18 \\ \times 80 \\ \hline 1440 \end{array}$	$\begin{array}{r} 18 \\ \times 90 \\ \hline 1620 \end{array}$

$$\begin{array}{r} 21 \\ 18 \overline{) 378} \\ \underline{360} \\ 18 \\ \underline{18} \\ 0 \end{array}$$

$$\begin{array}{r} 73 \\ 18 \overline{) 1314} \\ \underline{126} \\ 54 \\ \underline{54} \\ 0 \end{array}$$

$$\begin{array}{r} 49 \\ 18 \overline{) 882} \\ \underline{72} \\ 162 \\ \underline{162} \\ 0 \end{array}$$

$$\begin{array}{r} 65 \\ 18 \overline{) 1080} \\ \underline{108} \\ 0 \\ \underline{0} \\ 0 \end{array}$$

$$\begin{array}{r} 58 \\ 18 \overline{) 1044} \\ \underline{90} \\ 144 \\ \underline{144} \\ 0 \end{array}$$

$$\begin{array}{r} 84 \\ 18 \overline{) 1512} \\ \underline{144} \\ 72 \\ \underline{72} \\ 0 \end{array}$$

$$\begin{array}{r} 37 \\ 18 \overline{) 666} \\ \underline{54} \\ 126 \\ \underline{126} \\ 0 \end{array}$$

$$\begin{array}{r} 94 \\ 18 \overline{) 1692} \\ \underline{162} \\ 72 \\ \underline{72} \\ 0 \end{array}$$

$$\begin{array}{r} 36 \quad 6 \quad 1 \\ \hline 0 \quad 5 \quad 4 \end{array} \quad 34$$

$$\begin{array}{r} 49 \quad 7 \quad 1 \\ \hline 0 \quad 6 \quad 3 \end{array} \quad 45$$

$$\begin{array}{r} 64 \quad 8 \quad 1 \\ \hline 0 \quad 7 \quad 7 \end{array} \quad 63$$

$$\begin{array}{r} 81 \quad 9 \quad 1 \\ \hline 0 \quad 7 \quad 6 \end{array} \quad 69$$

$$\begin{array}{r} 36 \quad 6 \quad 1 \\ \hline 1 \quad 3 \quad 3 \end{array} \quad 57$$

$$\begin{array}{r} 49 \quad 7 \quad 1 \\ \hline 1 \quad 3 \quad 0 \end{array} \quad 70$$

$$\begin{array}{r} 64 \quad 8 \quad 1 \\ \hline 1 \quad 5 \quad 0 \end{array} \quad 104$$

$$\begin{array}{r} 81 \quad 9 \quad 1 \\ \hline 0 \quad 8 \quad 8 \end{array} \quad 80$$

$$\begin{array}{r} 36 \quad 6 \quad 1 \\ \hline 2 \quad 3 \quad 0 \end{array} \quad 90$$

$$\begin{array}{r} 49 \quad 7 \quad 1 \\ \hline 2 \quad 0 \quad 2 \end{array} \quad 100$$

$$\begin{array}{r} 64 \quad 8 \quad 1 \\ \hline 0 \quad 6 \quad 7 \end{array} \quad 55$$

$$\begin{array}{r} 81 \quad 9 \quad 1 \\ \hline 1 \quad 2 \quad 0 \end{array} \quad 99$$

$$\begin{array}{r} 36 \quad 6 \quad 1 \\ \hline 1 \quad 5 \quad 5 \end{array} \quad 71$$

$$\begin{array}{r} 49 \quad 7 \quad 1 \\ \hline 1 \quad 6 \quad 0 \end{array} \quad 91$$

$$\begin{array}{r} 64 \quad 8 \quad 1 \\ \hline 2 \quad 3 \quad 2 \end{array} \quad 154$$



How do you feel?

Addition Sumar

$$\begin{array}{r} 43 \\ + 20 \\ \hline 63 \end{array}$$

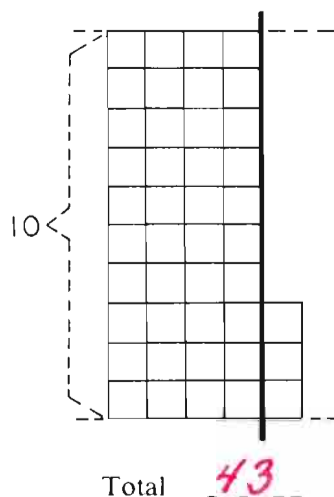
$$\begin{array}{r} 43 \\ + 7 \\ \hline 50 \end{array}$$

$$\begin{array}{r} 43 \\ + 28 \\ \hline 71 \end{array}$$

$$\begin{array}{r} 33 \\ + 9 \\ \hline 42 \end{array}$$

$$\begin{array}{r} 53 \\ + 13 \\ \hline 66 \end{array}$$

$$\begin{array}{r} 43 \\ + 43 \\ \hline 86 \end{array}$$



Total 43

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
$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$
0	5	10	15	20	25	30	35	40	45	50	55	60	65

5	10	15
$\times 5$	$\times 5$	$\times 5$
25	50	75

4	8	16
$\times 5$	$\times 5$	$\times 5$
20	40	80

9	10	19
$\times 5$	$\times 5$	$\times 5$
45	50	95

7	14	28
$\times 5$	$\times 5$	$\times 5$
35	70	140

5 <u>7</u> 35	5 <u>14</u> 70	5 <u>9</u> 45	5 <u>18</u> 90
5 <u>5</u> 25	5 <u>10</u> 50	5 <u>15</u> 75	5 <u>20</u> 100
5 <u>8</u> 40	5 <u>16</u> 80	5 <u>11</u> 55	5 <u>22</u> 110



How do you feel?
¿Cómo se siente?

$$\frac{1}{3} \text{ of } 24 = \underline{8}$$

$$\frac{1}{2} \times 24 = \underline{12}$$

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

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

24
Total

$$1W = 4N$$

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

$$1 \text{ DOZ} = 12 \text{ EGGS}$$

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

Addition Sumas

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

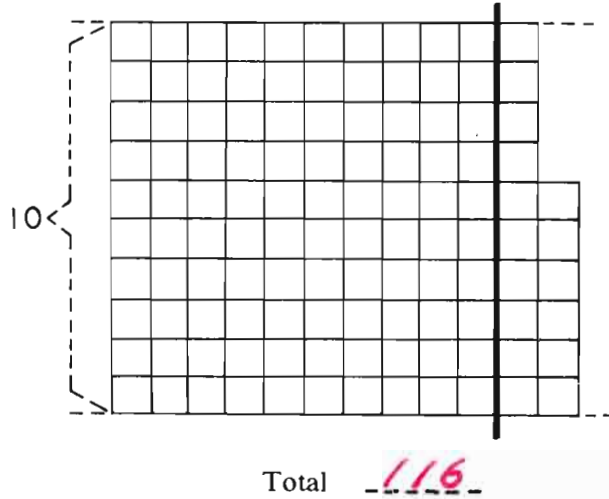
$$\begin{array}{r} 116 \\ + 30 \\ \hline 146 \end{array}$$

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

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

$$\begin{array}{r} 112 \\ + 18 \\ \hline 130 \end{array}$$

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



Subtraction Diferencias

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

$$\begin{array}{r} 116 \\ - 9 \\ \hline 107 \end{array}$$

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

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

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

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

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	180	240

$\frac{10}{6 \overline{)60}}$	$\frac{4}{6 \overline{)24}}$	$\frac{14}{6 \overline{)84}}$	$\frac{15}{6 \overline{)90}}$
-------------------------------	------------------------------	-------------------------------	-------------------------------

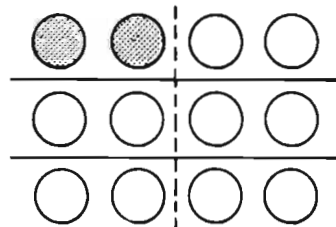
7	20	27
$\times 6$	$\times 6$	$\times 6$
42	120	162

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

$\frac{20}{6 \overline{)120}}$	$\frac{2}{6 \overline{)12}}$	$\frac{22}{6 \overline{)132}}$	$\frac{23}{6 \overline{)138}}$
$\frac{4}{6 \overline{)24}}$	$\frac{8}{6 \overline{)48}}$	$\frac{12}{6 \overline{)72}}$	$\frac{16}{6 \overline{)96}}$



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

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

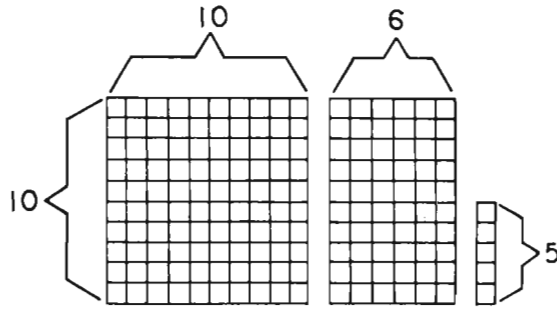
$$\begin{array}{r} 165 \\ + 15 \\ \hline 180 \end{array}$$

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

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

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

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



Total 165

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

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

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

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

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

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

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

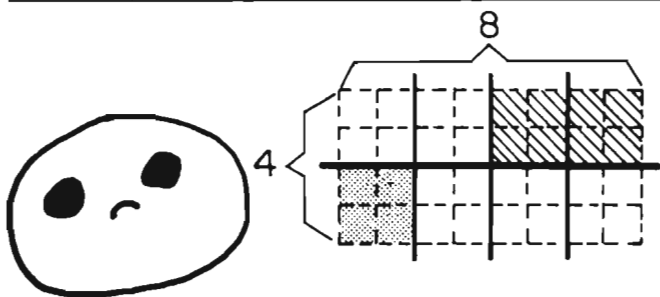
5	10	15
$\times 7$	$\times 7$	$\times 7$
35	70	105

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

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

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

10	5	15	30
7 $\overline{)70}$	7 $\overline{)35}$	7 $\overline{)105}$	7 $\overline{)210}$
9	10	19	20
7 $\overline{)63}$	7 $\overline{)70}$	7 $\overline{)133}$	7 $\overline{)140}$
5	9	14	16
7 $\overline{)35}$	7 $\overline{)63}$	7 $\overline{)98}$	7 $\overline{)112}$



How do you feel?
¿Cómo se siente?

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

$$\frac{6}{8} \times 32 = \underline{24} \quad \frac{3}{4} \times 32 = \underline{24}$$

1 da. = 24 hr.

1 LB. $\rightarrow$ 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¢

Addition Sumar

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

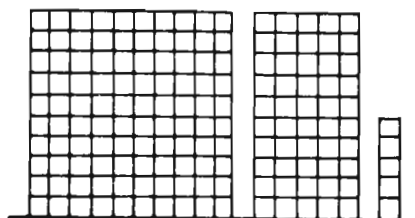
$$\begin{array}{r} 155 \\ + 45 \\ \hline 200 \end{array}$$

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

$$\begin{array}{r} 355 \\ + 355 \\ \hline 710 \end{array}$$

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

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



Total 155

Subtraction Restar

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

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

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

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

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

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

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

$\overline{)160}$	$\overline{)40}$	$\overline{)200}$	$\overline{)400}$
20	5	25	50

$\overline{)56}$	$\overline{)112}$	$\overline{)224}$	$\overline{)448}$
7	14	28	56

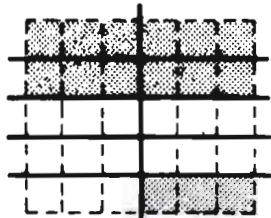
$\overline{)320}$	$\overline{)24}$	$\overline{)344}$	$\overline{)688}$
40	3	43	86

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

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



How do you feel?
¿Cómo se siente?



30
Total

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

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

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

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

1 METER
10 DECIMETERS

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

$\frac{1}{2}$ OFF

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

Addition

Sumar

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

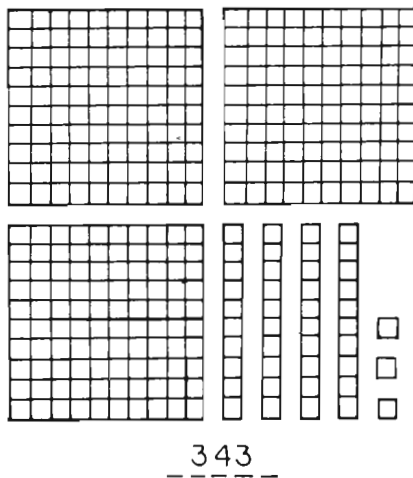
$$\begin{array}{r} 343 \\ +159 \\ \hline 502 \end{array}$$

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

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

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

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



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

$$\begin{array}{r} 20 \\ \times 9 \\ \hline 180 \end{array}$$

$$\begin{array}{r} 30 \\ \times 9 \\ \hline 270 \end{array}$$

$$\begin{array}{r} 40 \\ \times 9 \\ \hline 360 \end{array}$$

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

$$\begin{array}{r} 25 \\ \times 9 \\ \hline 225 \end{array}$$

$$\begin{array}{r} 50 \\ \times 9 \\ \hline 450 \end{array}$$

$$\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$$

$$\begin{array}{r} 69 \\ \times 9 \\ \hline 621 \end{array}$$

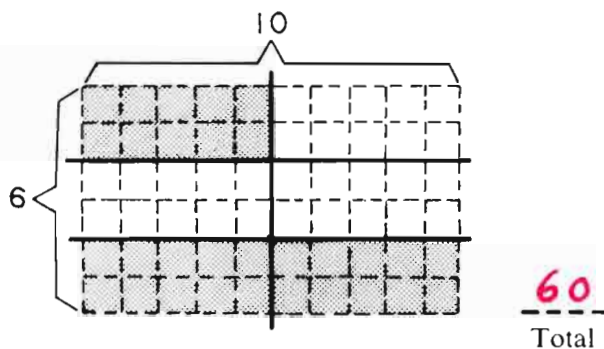
$$\begin{array}{r} 60 \\ \times 9 \\ \hline 540 \end{array}$$

$$\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$$

$$\begin{array}{r} 24 \\ \times 9 \\ \hline 216 \end{array}$$

$$\begin{array}{r} 48 \\ \times 9 \\ \hline 432 \end{array}$$

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



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

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

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

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

$\frac{1}{4}$ 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

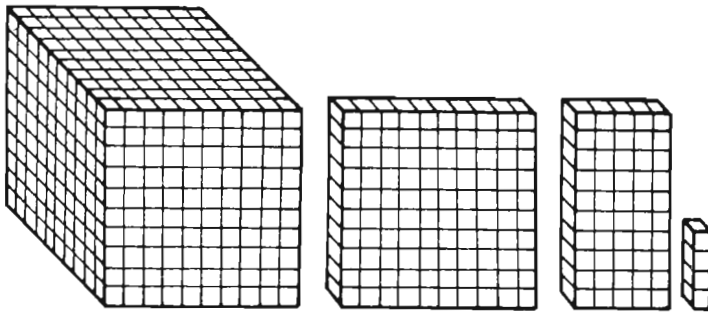
$\frac{1}{2}$ 5

$\frac{1}{10}$ 1



"HOW MANY?"

"¿CUANTOS?"



Total 1,154

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

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

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

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

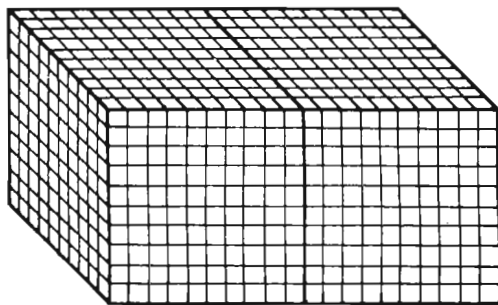
$$\begin{array}{r} 1,154 \\ - 308 \\ \hline 846 \end{array}$$

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

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

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

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



Total 2,378

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

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

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

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

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

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

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

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

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

Please use the smallest whole numbers. Favor de usar los números más pequeños.

$$\begin{array}{r} 4 \ 2 \ 1 \\ \boxed{1} \ \boxed{0} \ \boxed{1} \end{array} \underline{5}$$

$$\begin{array}{r} 9 \ 3 \ 1 \\ \boxed{2} \ \boxed{1} \ \boxed{2} \end{array} \underline{23}$$

$$\begin{array}{r} 16 \ 4 \ 1 \\ \boxed{3} \ \boxed{0} \ \boxed{1} \end{array} \underline{49}$$

$$\begin{array}{r} 25 \ 5 \ 1 \\ \boxed{3} \ \boxed{2} \ \boxed{4} \end{array} \underline{89}$$

$$\begin{array}{r} 36 \ 6 \ 1 \\ \boxed{1} \ \boxed{5} \ \boxed{1} \end{array} \underline{67}$$

$$\begin{array}{r} 49 \ 7 \ 1 \\ \boxed{2} \ \boxed{3} \ \boxed{6} \end{array} \underline{125}$$

$$\begin{array}{r} 64 \ 8 \ 1 \\ \boxed{1} \ \boxed{4} \ \boxed{4} \end{array} \underline{100}$$

$$\begin{array}{r} 81 \ 9 \ 1 \\ \boxed{2} \ \boxed{4} \ \boxed{2} \end{array} \underline{200}$$

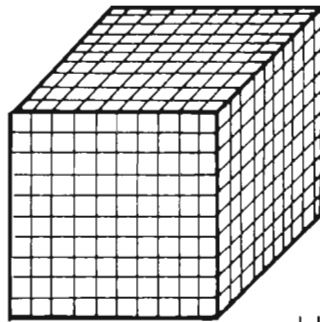
$$\begin{array}{r} 100 \ 10 \ 1 \\ \boxed{3} \ \boxed{7} \ \boxed{6} \end{array} \underline{376}$$



How do you feel?
¿Cómo se siente?

$$\begin{array}{r} 1,166 \\ + 108 \\ \hline 1,274 \end{array}$$

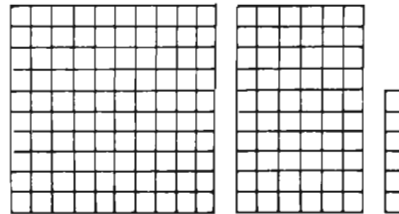
$$\begin{array}{r} 166 \\ + 783 \\ \hline 949 \end{array}$$



$$\begin{array}{r} 1,083 \\ + 83 \\ \hline 1,166 \\ 166 \\ 166 \\ 166 \\ + 166 \\ \hline 664 \end{array}$$

$$\begin{array}{r} 1,166 \\ + 1,999 \\ \hline 3,165 \\ 367 \\ 82 \\ 197 \\ + 56 \\ \hline 702 \end{array}$$

1,166.



$$\begin{array}{r} 1,166 \\ - 159 \\ \hline 1,007 \end{array}$$

$$\begin{array}{r} 1,166 \\ - 77 \\ \hline 1,089 \end{array}$$

$$\begin{array}{r} 2,166 \\ - 729 \\ \hline 1,437 \end{array}$$

$$\begin{array}{r} 7,166 \\ - 1,598 \\ \hline 5,568 \end{array}$$

$$\begin{array}{r} 1,166 \\ \div 2 \\ \hline 583 \end{array}$$

$$\begin{array}{r} 1,166 \\ \times 2 \\ \hline 2,332 \end{array}$$

13	13	13	13	13	13	13	13	13	13	13	13	13	13
$\times 2$	$\times 3$	$\times 4$	$\times 5$	$\times 6$	$\times 7$	$\times 8$	$\times 9$	$\times 10$	$\times 20$	$\times 30$	$\times 40$	$\times 50$	$\times 60$
26	39	52	65	78	91	104	117	130	260	390	520	650	780

$$\begin{array}{r} 13 \\ \times 49 \\ \hline 117 \\ 520 \\ \hline 637 \end{array}$$

$$\begin{array}{r} 13 \\ \times 25 \\ \hline 65 \\ 26 \\ \hline 325 \end{array}$$

$$\begin{array}{r} 13 \\ \times 67 \\ \hline 91 \\ 78 \\ \hline 871 \end{array}$$

$$\begin{array}{r} 13 \\ \times 58 \\ \hline 104 \\ 65 \\ \hline 754 \end{array}$$

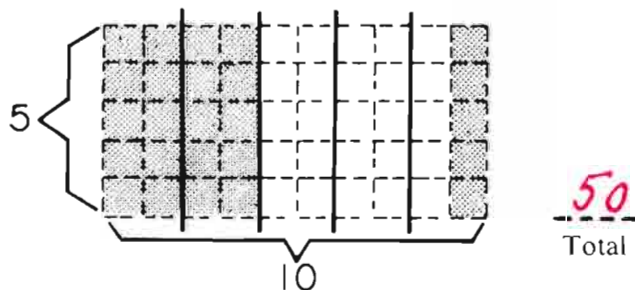
$6 \overline{)45} \text{ } 7R^3$	$7 \overline{)50} \text{ } 7R^1$	$8 \overline{)60} \text{ } 7R^4$	$9 \overline{)75} \text{ } 8R^3$
$6 \overline{)65} \text{ } 10R^5$	$7 \overline{)67} \text{ } 9R^4$	$8 \overline{)75} \text{ } 9R^3$	$9 \overline{)50} \text{ } 5R^5$
$6 \overline{)33} \text{ } 5R^3$	$7 \overline{)57} \text{ } 8R^1$	$8 \overline{)65} \text{ } 8R^1$	$9 \overline{)85} \text{ } 9R^4$

$$N = 2 \frac{1}{2}$$

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



$$\frac{2}{5} \text{ of } 50 = 20$$

$$\frac{1}{2} \times 50 = 25$$

$$\frac{1}{10} \times 50 = 5$$

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



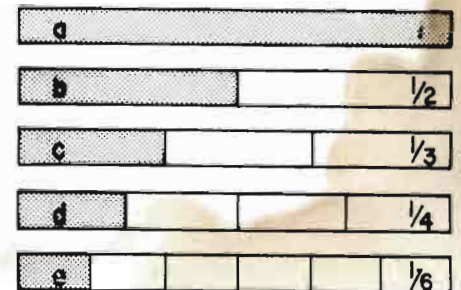
On Your Own (I)

$$\begin{array}{r} 37 \\ 37 \\ 37 \\ + 37 \\ \hline 148 \end{array} \textcircled{1}$$

$$\begin{array}{r} 100 \\ - 37 \\ \hline 63 \end{array} \textcircled{2}$$

$$\begin{array}{r} 37 \\ \times 12 \\ \hline 444 \end{array} \textcircled{3}$$

$$\begin{array}{r} 23 \\ \times 46 \\ \hline 1058 \end{array} \textcircled{4}$$



Please circle the letter after the line you think will be the best "estimate."

$$\boxed{12 \times 12 = 144}$$

$$\begin{array}{r} 10 \times 10 \\ 10 \times 15 \\ 10 \times 20 \end{array} \begin{array}{l} \text{A.} = 100 \\ \textcircled{\text{B}} = 150 \\ \text{C.} = 200 \end{array} \textcircled{8}$$

$$\boxed{15 \times 15 = 225}$$

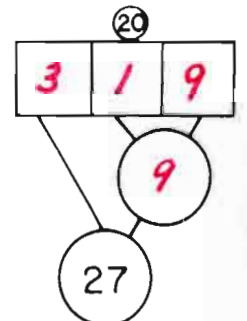
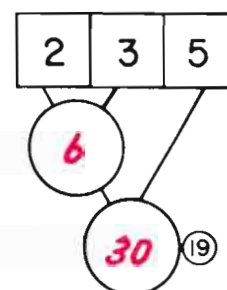
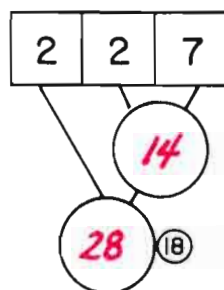
$$\begin{array}{r} 10 \times 10 \\ 10 \times 20 \\ 20 \times 20 \end{array} \begin{array}{l} \text{D.} = 100 \\ \textcircled{\text{E}} = 200 \\ \text{F.} = 400 \end{array} \textcircled{9}$$

$$\begin{array}{r} a - 3d = d \textcircled{5} \\ 1 - \frac{3}{4} = \frac{1}{4} \end{array}$$

$$\begin{array}{r} b + d = 3d \textcircled{6} \\ \frac{1}{2} + \frac{1}{4} = \frac{3}{4} \end{array}$$

$$\begin{array}{r} 2c - e = 3e \text{ or } 8 \textcircled{7} \\ \frac{2}{3} - \frac{1}{6} = \frac{3}{6} \text{ or } \frac{1}{2} \end{array}$$

$$\begin{array}{r} 2 \times 5 = 10 \textcircled{10} \\ 10 \times 5 = 50 \textcircled{11} \\ 5 \times 20 = 100 \textcircled{12} \\ 10 \times 20 = 200 \textcircled{13} \\ 10 \times 50 = 500 \textcircled{14} \\ 20 \times 50 = 1,000 \textcircled{15} \\ 2 \times 500 = 1,000 \textcircled{16} \\ 10 \times 500 = 5,000 \textcircled{17} \end{array}$$



100 %	50 %	25 %	10 %	5 %
60	30	15 $\textcircled{21}$	6 $\textcircled{22}$	3 $\textcircled{23}$
100	50 $\textcircled{24}$	25	10 $\textcircled{25}$	5 $\textcircled{26}$
50	25 $\textcircled{27}$	12.5 $\textcircled{28}$	5	2.5 $\textcircled{29}$

1 doz. = 12 eggs

$$\begin{array}{r|l} \text{doz.} & \text{eggs} \\ \hline 2 & 4 \\ + 1 & 11 \\ \hline 3 & 15 \end{array} \begin{array}{l} 28 \text{ e.} \\ 23 \text{ e.} \\ 51 \text{ e.} \end{array} \textcircled{31}$$

$$\begin{array}{r|l} \text{doz.} & \text{eggs} \\ \hline 3 & 3 \\ - 1 & 10 \\ \hline 1 & 5 \end{array} \begin{array}{l} 39 \text{ e.} \\ 22 \text{ e.} \\ 17 \text{ e.} \end{array} \textcircled{32}$$



How do you feel?

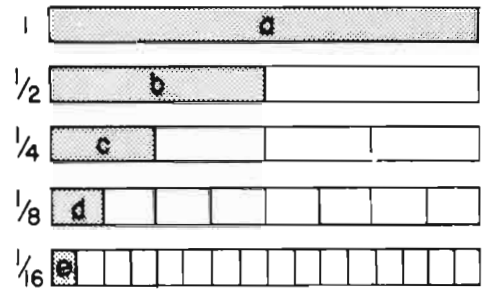
On Your Own (II)

$$\begin{array}{r} 185 \\ 185 \\ + 185 \\ \hline 555 \end{array}$$

$$5 \overline{) 215} \quad 43$$

$$23 \overline{) 1035} \quad 45$$

$$3 \times \$1.50 = \$4.50$$



Please circle the letter after the line you think will be the best "estimate."

$$96 \div 23 = 4.17$$

$$90 \div 30 \quad A. = 3$$

$$100 \div 20 \quad B. = 5$$

$$100 \div 25 \quad C. = 4$$

$$234 \div 18 = 13$$

$$240 \div 20 \quad D. = 12$$

$$300 \div 15 \quad E. = 20$$

$$200 \div 20 \quad F. = 10$$

$$\frac{c}{4} + \frac{2d}{8} = \frac{b}{2}$$

$$\frac{3e}{16} + \frac{3e}{16} = \frac{3d}{8}$$

$$\frac{a}{1} - \frac{3d}{8} = \frac{5d}{8}$$

$$8 \times 10 = 80$$

$$80 \times 10 = 800$$

$$8 \times 100 = 800$$

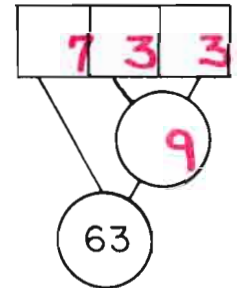
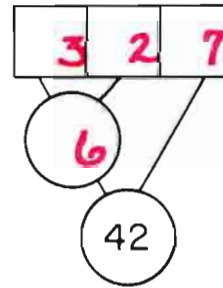
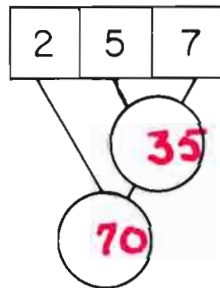
$$8 \times 50 = 400$$

$$80 \times 50 = 4,000$$

$$5 \times 800 = 4,000$$

$$50 \times 800 = 40,000$$

$$80 \times 500 = 4,000$$



	100 %	50 %	150 %	25 %	200 %
\$ 400	\$ 400	\$ 200	\$ 600	\$ 100	\$ 800
\$ 300	\$ 300	\$ 150	\$ 450	\$ 75	\$ 600
\$ 50	\$ 50	\$ 25	\$ 75	\$ 12.50	\$ 100

1 week = 7 days

$$\begin{array}{r|l} \text{wk.} & \text{da.} \\ \hline 1 & 6 \\ + 2 & 4 \\ \hline 3 & 10 \\ \text{or } 4 & 3 \\ \hline & 31 \text{ da.} \end{array}$$

$$\begin{array}{r|l} \text{wk.} & \text{da.} \\ \hline (12) & (17) \\ 3 & 0 \\ - 1 & 5 \\ \hline 1 & 2 \\ \hline & 9 \text{ da.} \end{array}$$



How do you feel?

On Your Own (III)

$$\begin{array}{r} 175 \\ + 392 \\ \hline 567 \end{array}$$

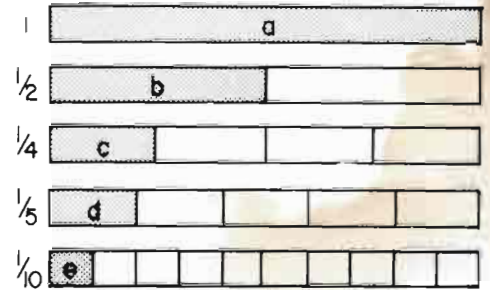
$$\begin{array}{r} 37 \\ \times 9 \\ \hline 333 \end{array}$$

$$\begin{array}{r} 750 \\ - 195 \\ \hline 555 \end{array}$$

$$\begin{array}{r} 148 \\ \times 6 \\ \hline 888 \end{array}$$

$$\begin{array}{r} 37 \\ \times 12 \\ \hline 74 \\ 37 \\ \hline 444 \end{array}$$

$$\begin{array}{r} 101 \\ \times 63 \\ \hline 303 \\ 606 \\ \hline 6363 \end{array}$$



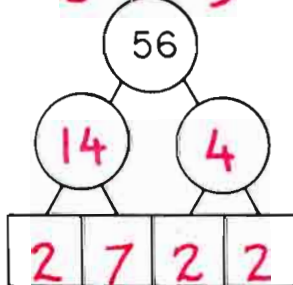
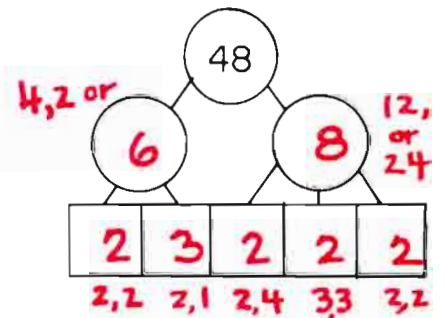
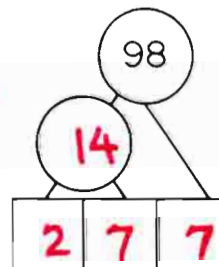
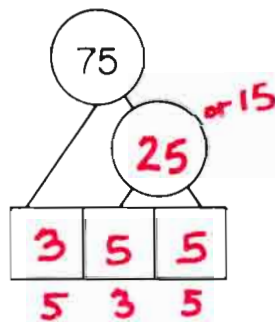
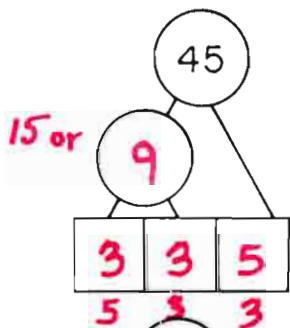
Please circle the letter after the line you think will be the best "estimate."

$18 \times 21 = 378$	$25 \times 25 = 625$
20×23 A = 460	20×30 D = 600
20×20 B = 400	20×25 E = 500
15×20 C = 300	30×30 F = 900

$$\begin{array}{r} b - e = 2d \\ \frac{1}{2} - \frac{1}{10} = \frac{2}{5} \end{array}$$

$$\begin{array}{r} 2d + e = b \\ \frac{2}{5} + \frac{1}{10} = \frac{1}{2} \end{array}$$

$$\begin{array}{r} 3e + e = 2d \\ \frac{3}{10} + \frac{1}{10} = \frac{2}{5} \end{array}$$



100 %	2 %	5 %	102 %	105 %
\$ 1.00	\$.02	\$.05	\$ 1.02	\$ 1.05
\$ 100	\$ 2.	\$ 5.	\$ 102.	\$ 105.
\$ 50	\$ 1.	\$ 2.5	\$ 51.	\$ 52.5



How do you feel?

1 pound (lb.) = 16 ounces (oz.)

lb.	oz.	
2	16	31
3	0	48 oz.
-	13	29 oz.
1	3	19 oz.

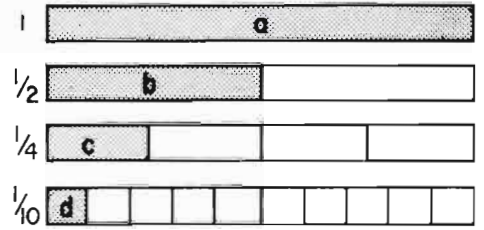
lb.	oz.	
2	5	2
x 4		37 oz.
8	20	
9	4	148 oz.

On Your Own (IV)

$$\begin{array}{r} 23 \\ 2468 \\ 2468 \\ 2468 \\ + 2468 \\ \hline 9872 \end{array} \quad \begin{array}{r} 123 \\ \times 4 \\ \hline 492 \end{array}$$

$$\begin{array}{r} 182 \\ 4 \overline{) 728} \\ \underline{4} \\ 32 \\ \underline{32} \\ 8 \\ \underline{8} \\ 0 \end{array}$$

$$\begin{array}{r} 37 \\ 18 \overline{) 666} \\ \underline{54} \\ 126 \\ \underline{126} \\ 0 \end{array}$$



Please circle the letter after the line you think will be the best "estimate."

$$329 \div 17 = 19.17$$

$$275 \div 28 = 9.82$$

$$300 \div 15 \quad \text{A. } 20$$

$$300 \div 25 \quad \text{D. } 12$$

$$300 \div 20 \quad \text{B. } 15$$

$$240 \div 30 \quad \text{E. } 8$$

$$350 \div 15 \quad \text{C. } 23.33$$

$$250 \div 25 \quad \text{F. } 10$$

$$\begin{array}{r} a - 3c = c \\ 1 - 3/4 = 1/4 \end{array}$$

$$\begin{array}{r} 3d + 2d = b \\ 3/10 + 2/10 = 1/2 \end{array}$$

$$\begin{array}{r} 7d + 3d = a \\ 7/10 + 3/10 = 1 \end{array}$$

$$4 \times 5 = 20$$

$$4 \times 50 = 200$$

$$40 \times 50 = 2,000$$

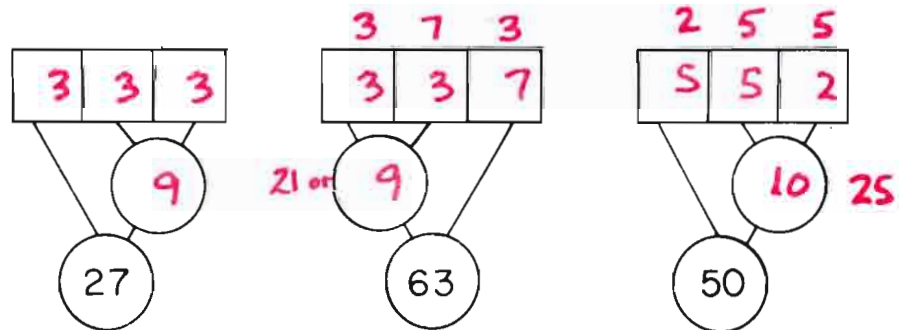
$$4 \times 25 = 100$$

$$40 \times 25 = 1,000$$

$$4 \times 250 = 1,000$$

$$40 \times 500 = 20,000$$

$$40 \times 250 = 10,000$$



100 %	50 %	125 %	10 %	150 %
\$ 500	\$ 250	\$ 625	\$ 50	\$ 750
\$ 10	\$ 5	\$ 12.50	\$ 1	\$ 15
\$ 400	\$ 200	\$ 500	\$ 40	\$ 600

1 yard = 3 feet

1 foot = 12 inches

yd.	ft.	in.	
1	1	10	58 in.
1	1	11	59 in.
3	0	9	117 in.



How do you feel?

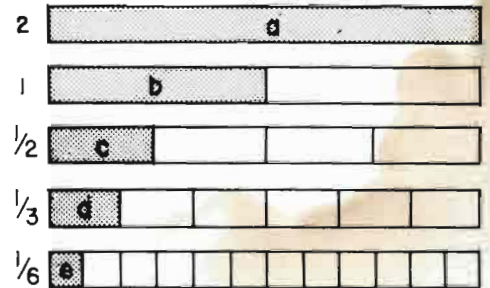
yd.	ft.	in.	
1	1	7	55 in.
2	3	14	110 in.

On Your Own

$$\begin{array}{r} 11 \\ 357 \\ + 246 \\ \hline 603 \\ 603 \\ - 468 \\ \hline 285 \end{array}$$

$$\begin{array}{r} 61 \\ 182 \\ \times 8 \\ \hline 1456 \end{array}$$

$$\begin{array}{r} 112 \\ \times 13 \\ \hline 336 \\ 112 \\ \hline 1456 \end{array}$$



Please circle the letter after the line you think will be the best "estimate."

$$35 \times 75 = 2,625$$

$$27 \times 54 = 1,458$$

$$30 \times 80 \quad \text{A} = 2,400$$

$$25 \times 55 \quad \text{D} = 1,375$$

$$40 \times 80 \quad \text{B} = 3,200$$

$$25 \times 50 \quad \text{E} = 1,250$$

$$30 \times 70 \quad \text{C} = 2,100$$

$$30 \times 50 \quad \text{F} = 1,500$$

$$b + d = 4d$$

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

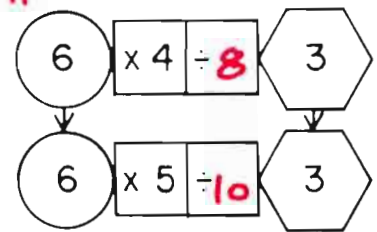
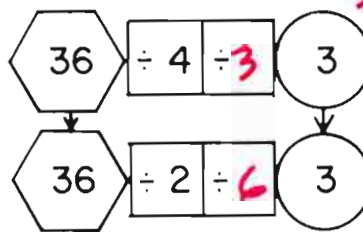
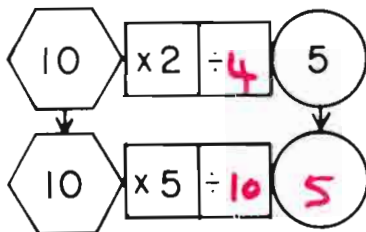
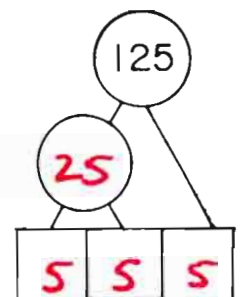
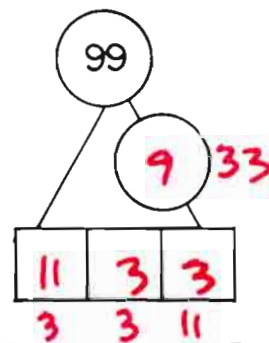
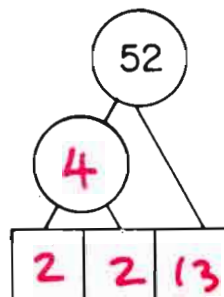
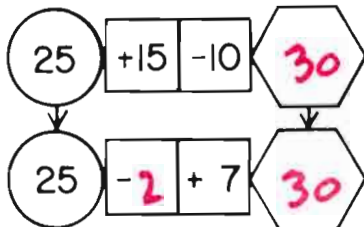
$$4e - d = d$$

$$\frac{4}{6} - \frac{1}{3} = \frac{1}{3}$$

$$b \div 3 = d$$

$$1 \div 3 = \frac{1}{3}$$

Equal Chain Reactions



$$\begin{array}{r} 10\text{¢} \quad 5\text{¢} \quad 1\text{¢} \\ 3 \quad | \quad 1 \quad | \quad 4 \\ + 1 \quad | \quad 0 \quad | \quad 2 \\ \hline 4 \quad | \quad 1 \quad | \quad 6 \\ \text{or } 5 \quad | \quad 0 \quad | \quad 1 \end{array} \quad \begin{array}{r} 39\text{¢} \\ 12\text{¢} \\ \hline 51\text{¢} \end{array}$$

$$\begin{array}{r} 10\text{¢} \quad 5\text{¢} \quad 1\text{¢} \\ 4 \quad | \quad 1 \quad | \quad 5 \\ - 2 \quad | \quad 1 \quad | \quad 3 \\ \hline 2 \quad | \quad 0 \quad | \quad 2 \end{array} \quad \begin{array}{r} 40\text{¢} \\ 28\text{¢} \\ \hline 22\text{¢} \end{array}$$



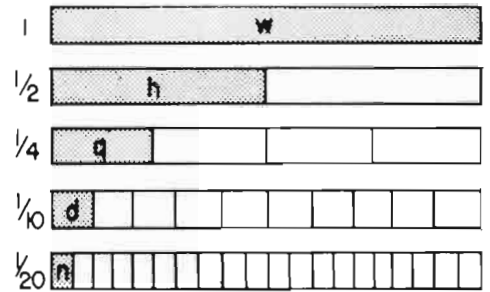
How do you feel?

On Your Own (VI)

$$\begin{array}{r} 26 \\ 727 \\ \times 9 \\ \hline 6543 \end{array}$$

$$\begin{array}{r} 24 \\ 148 \\ 148 \\ 148 \\ 148 \\ 148 \\ + 148 \\ \hline 888 \end{array}$$

$$\begin{array}{r} 185 \\ \times 24 \\ \hline 740 \\ 370 \\ \hline 4440 \end{array}$$

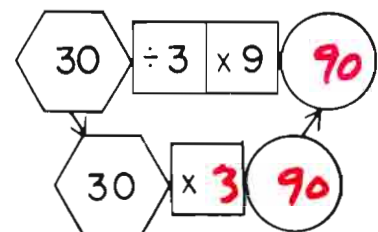
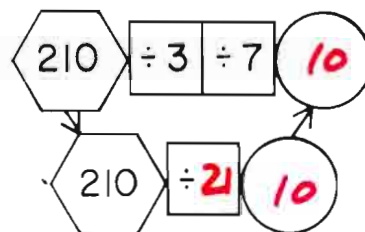
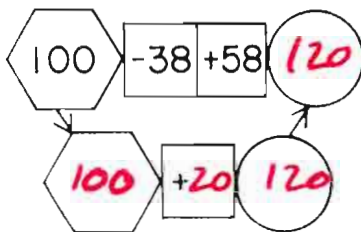
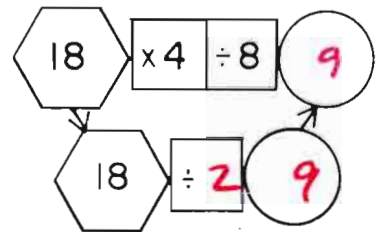
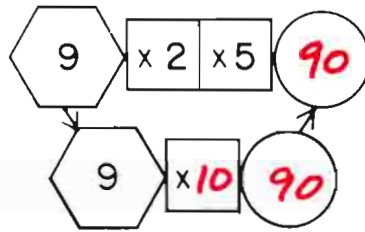
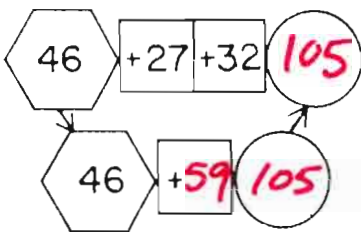


Please circle the letter after the line you think will be the best "estimate."

$575 \div 35 = 16.4$	$2511 \div 55 = 45.65$
$500 \div 40$ A. $= 12.5$	$3000 \div 50$ D. $= 60$
$600 \div 40$ B. $= 15$	$2000 \div 50$ E. $= 40$
$600 \div 30$ C. $= 20$	$2000 \div 60$ F. $= 33.3$

$$\begin{array}{l} 3h - 3q = 3g \\ 3/2 - 3/4 = 3/4 \\ \text{or } w + 3d \\ 2w - 7d = 13d \\ 2 - 7/10 = 13/10 \\ 3h \div 15 = d \\ 1\frac{1}{2} \div 15 = \frac{1}{10} \end{array}$$

Chain Reactions . . . and Shortcuts



How do you feel?

25¢	5¢	1¢	
3	4	5	
4	0	0	100 ¢
-	1	4	2
			47 ¢
			53 ¢

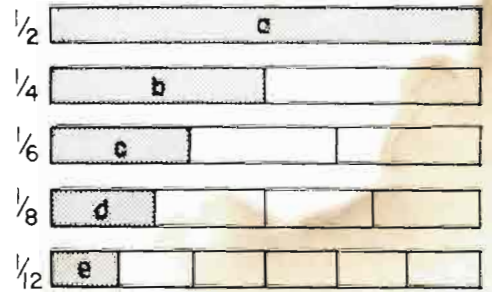
25¢	5¢	1¢	
2	3	4	
			69 ¢
			x 3
			207 ¢
			or 6 9 12

On Your Own (VII)

$$\begin{array}{r} 1000 \\ - 392 \\ \hline 608 \end{array}$$

$$\begin{array}{r} 12 \quad 21 \\ 148,296 \\ 148,296 \\ + 148,296 \\ \hline 444,888 \end{array}$$

$$\begin{array}{r} 296 \\ \times 75 \\ \hline 1480 \\ 2072 \\ \hline 22200 \end{array}$$



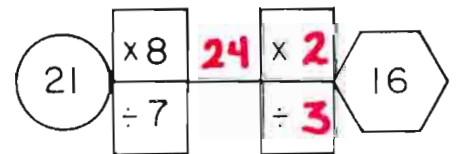
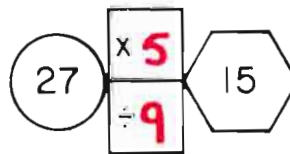
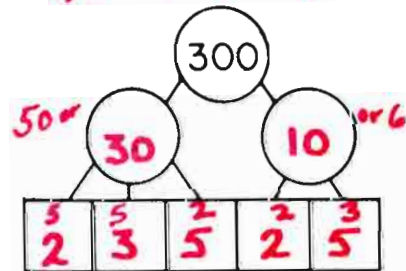
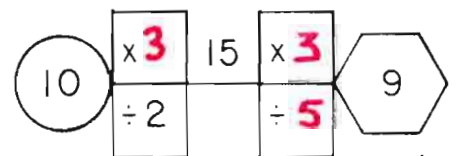
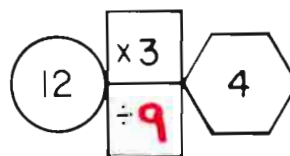
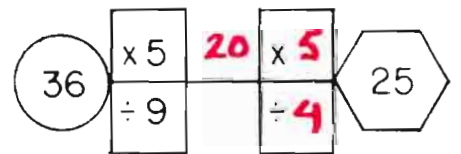
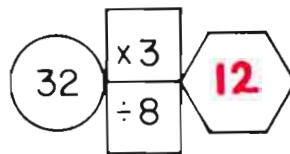
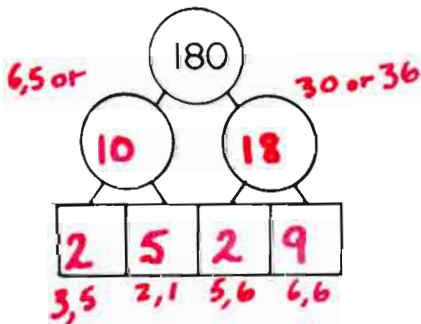
Please circle the letter after the line you think will be the best "estimate".

64×66	A. $4,224$	349×25	D. $8,725$
60×60	B. $3,600$	350×30	E. $10,500$
70×70	C. $4,900$	300×20	F. $6,000$
70×60	D. $4,200$	400×20	G. $8,000$

$$\frac{b}{\frac{1}{4}} - \frac{c}{\frac{1}{6}} = \frac{e}{\frac{1}{12}}$$

$$\frac{a}{\frac{1}{2}} - 2d = \frac{b}{\frac{1}{4}}$$

$$\frac{b}{\frac{1}{4}} \times \frac{1}{2} = \frac{d}{\frac{1}{8}}$$



1 gross = 12 doz.

1 dozen = 12 eggs

gr.	doz.	eggs	
1	7	9	237 e.
+	3	8	530 e.
4	15	11	
or 5	3	11	767 e.



How do you feel?

g.	d.	e.	
7	10	0	1128 e.
		÷ 3	÷ 3
2	7	4	376 e.

On Your Own (VIII)

$$\begin{array}{r} 1738 \\ \times 4 \\ \hline 6952 \end{array}$$

$$\begin{array}{r} 1305 \\ - 879 \\ \hline 426 \end{array}$$

$$\begin{array}{r} 146 \\ 35 \overline{) 5110} \\ \underline{35} \\ 161 \\ \underline{140} \\ 210 \\ \underline{210} \\ 0 \end{array}$$

Please circle the letter after the line you think will be the best "estimate".

$$4500 \div 66 = 68.18$$

$$4200 \div 70 \text{ A. } = 60$$

$$4200 \div 60 \text{ B. } = 70$$

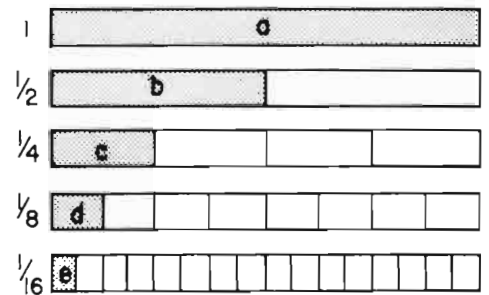
$$4800 \div 60 \text{ C. } = 80$$

$$8513 \div 125 = 68.10$$

$$8500 \div 100 \text{ D. } = 85$$

$$9000 \div 100 \text{ E. } = 90$$

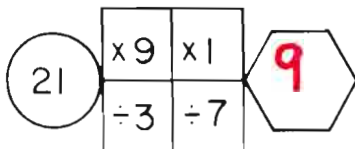
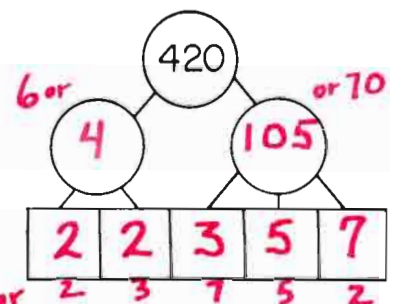
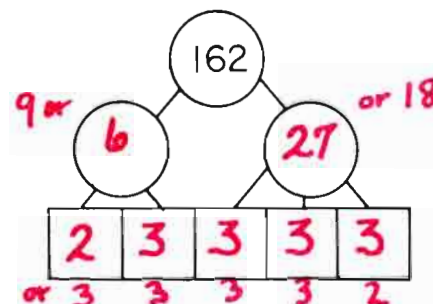
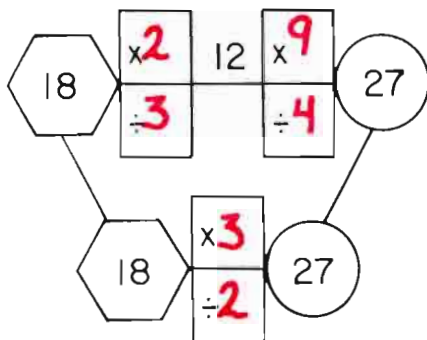
$$8000 \div 100 \text{ F. } = 80$$



$$\frac{1}{4} \times b = \frac{d}{8}$$

$$\frac{3}{4} \times c = \frac{3e}{16}$$

$$\frac{1}{2} \times 5d = \frac{5e}{16}$$



100 %	10 %	5 %	110 %	205 %
\$ 10.00	\$ 1.00	\$.50	\$ 11.00	\$ 20.50
\$ 5.00	\$.50	\$.25	\$ 5.50	\$ 10.25
\$ 15.00	\$ 1.50	\$.75	\$ 16.50	\$ 30.75

1 hour = 60 minutes

$$\begin{array}{r} \text{h.} \mid \text{m.} \mid \text{s.} \\ 1 \mid 30 \mid 45 \\ + 1 \mid 30 \mid 15 \\ \hline 3 \mid 1 \mid 0 \\ \text{or } 2 \mid 60 \mid 60 \end{array}$$

1 minute = 60 seconds

$$\begin{array}{r} \text{h.} \mid \text{m.} \mid \text{s.} \\ 1 \mid 0 \mid 0 \\ - 9 \mid 48 \\ \hline 50 \mid 12 \end{array}$$

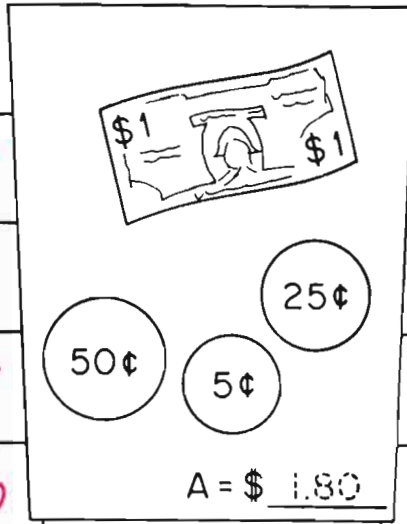


How do you feel?



How do you feel?
¿Cómo se siente?

$A + 20¢$	\$ <u>2.00</u>
$A - 37¢$	\$ <u>1.43</u>
$A + \$1.25$	\$ <u>3.05</u>
$2A$	\$ <u>3.60</u>



$\frac{1}{2} A$	\$ <u>.90</u>
$\$5.00 - A$	\$ <u>3.20</u>
$\frac{1}{3} A$	\$ <u>.60</u>
$25\% \times A$	\$ <u>.45</u>

$\begin{array}{r} 6 \\ + 9 \\ \hline 15 \end{array}$	$\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$	$\begin{array}{r} 20 \\ - 8 \\ \hline 12 \end{array}$	$\begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$
$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$	$\begin{array}{r} 15 \\ - 7 \\ \hline 8 \end{array}$	$\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$	$\begin{array}{r} 8 \\ + 5 \\ \hline 13 \end{array}$

$$30 \times 20 = \underline{600}$$

$$50 \times 40 = \underline{2,000}$$

$$(3 \times 9) - (4 \times 6) = \underline{3}$$

$$(5 \times 8) - (7 \times 4) = \underline{12}$$

$$24 \div 3 = \underline{8}$$

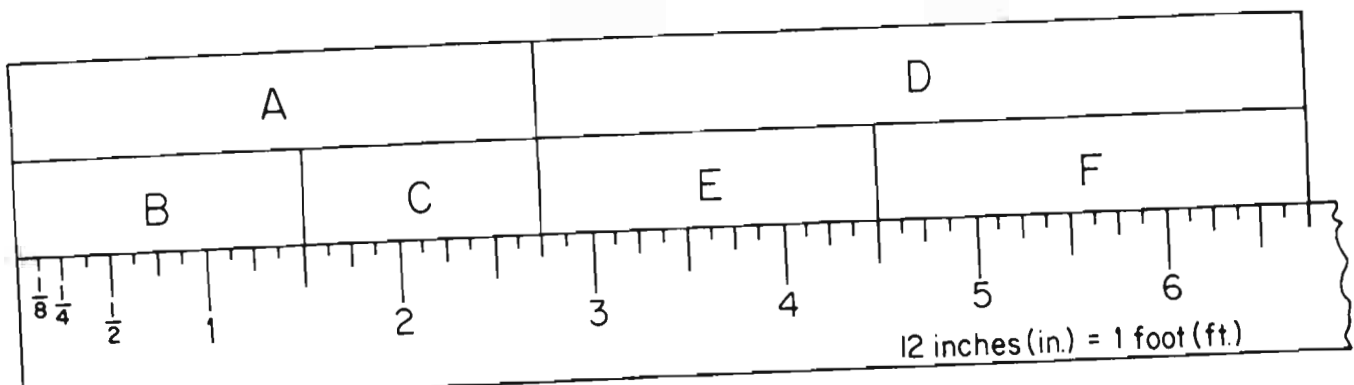
$$7 + 9 = \underline{16}$$

$$28 \div 7 = \underline{4}$$

$$13 - 5 = \underline{8}$$

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

$$\frac{2}{3} - \frac{1}{3} = \underline{\frac{1}{3}}$$



$\frac{1}{2}$ ft.	6 in.	B	$1\frac{1}{2}$ in.	F	<u>$2\frac{1}{4}$</u> in.
$\frac{1}{4}$ ft.	3 in.	C	<u>$1\frac{1}{4}$</u> in.	A	<u>$2\frac{3}{4}$</u> in.
$\frac{2}{3}$ ft.	8 in.	E	<u>$1\frac{3}{4}$</u> in.	D	<u>4</u> in.

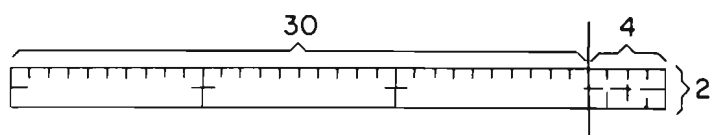
**SPEED
LIMIT
55 m.p.h.**
S = 55 m.p.h.



How do you feel?

¿Cómo se siente?

2S	<u>110</u> miles	S-18	<u>37</u> m.p.h.
S-30 m.p.h.	<u>25</u> m.p.h.	S-13	<u>42</u> m.p.h.
6 × (S-5)	<u>300</u> miles	S-35	<u>20</u> miles
$1\frac{1}{2}$ S	<u>82½</u> miles	50% × S	<u>27½</u> m.p.h.



$$\underline{60 + 8 = 68}$$

$$\begin{array}{r} 34 \\ \times 2 \\ \hline 68 \end{array}$$

$$\begin{array}{r} 34 \\ \times 3 \\ \hline 102 \end{array}$$

$$\begin{array}{r} 34 \\ 2 \overline{) 68} \\ \hline \end{array}$$

$$(7 \times 7) - (5 \times 6) = \underline{19}$$

$$(6 \times 6) - (3 \times 9) = \underline{9}$$

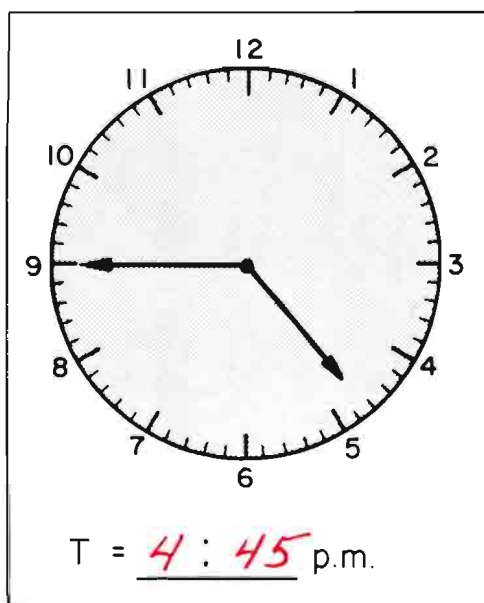
$$10 \times 850 = \underline{8,500} \quad 20 \times 50 = \underline{1,000}$$

$\begin{array}{r} 17 \\ + 8 \\ \hline 25 \end{array}$	$\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$	$\begin{array}{r} 7 \\ 6 \overline{) 42} \end{array}$	
$\begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array}$	$\begin{array}{r} 8 \\ 6 \overline{) 48} \end{array}$	$\begin{array}{r} 23 \\ + 29 \\ \hline 52 \end{array}$	$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$
$\begin{array}{r} 6 \\ 5 \overline{) 30} \end{array}$	$\begin{array}{r} 50 \\ - 32 \\ \hline 18 \end{array}$	$\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$	$\begin{array}{r} 45 \\ - 17 \\ \hline 28 \end{array}$

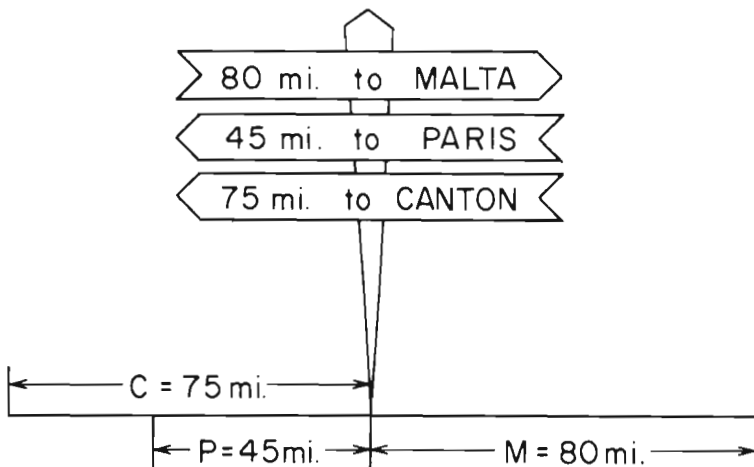
$$\frac{1}{2} = \frac{3}{6}$$

$$\frac{1}{4} = \frac{3}{12}$$

$$\frac{3}{4} = \frac{9}{12}$$



T + 45 min.	<u>5 : 30</u> p.m.
T - (1 hr. + 20 min.)	<u>3 : 25</u> p.m.
T + $1\frac{1}{2}$ hrs.	<u>6 : 15</u> p.m.
25% × 60 min.	<u>15</u> min.
T + 12 hrs.	<u>4 : 45</u> a.m.



C at 50 m.p.h.	$1\frac{1}{2}$ hrs.	2M	160 miles	$2 \times (P + M)$	250 miles
----------------	---------------------	----	-----------	--------------------	-----------

C - P	30 miles
P + M	125 miles
$\frac{2}{3} \times P$	30 miles
50% $\times$ M	40 miles



How do you feel?

¿Cómo se siente?

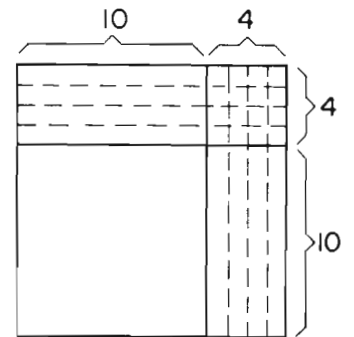
$\begin{array}{r} 9 \\ 8 \\ + 6 \\ \hline 23 \end{array}$	$\begin{array}{r} 9 \\ \times 8 \\ \hline 72 \end{array}$	$\begin{array}{r} 7 \\ 8 \overline{) 56} \end{array}$
$\begin{array}{r} 100 \\ - 65 \\ \hline 35 \end{array}$	$\begin{array}{r} 17 \\ 17 \\ + 17 \\ \hline 51 \end{array}$	$\begin{array}{r} 9 \\ 7 \overline{) 63} \end{array}$

$$(8 \times 7) - (5 \times 9) = 11$$

$$\$2.10 \div 3 = \$.70$$

$$\$2.10 \times 10 = \$ 21.00$$

$$100 \times 500 = 50,000$$



$$\frac{6}{4} = \frac{3}{2}$$

$$\frac{6}{9} = \frac{2}{3}$$

$$\frac{1}{4} = \frac{3}{12}$$

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

$$2\frac{1}{4} = \frac{9}{4}$$

$$1\frac{2}{3} = \frac{5}{3}$$

		4
$\times$	1	4
		56
1	4	
		196

Sale

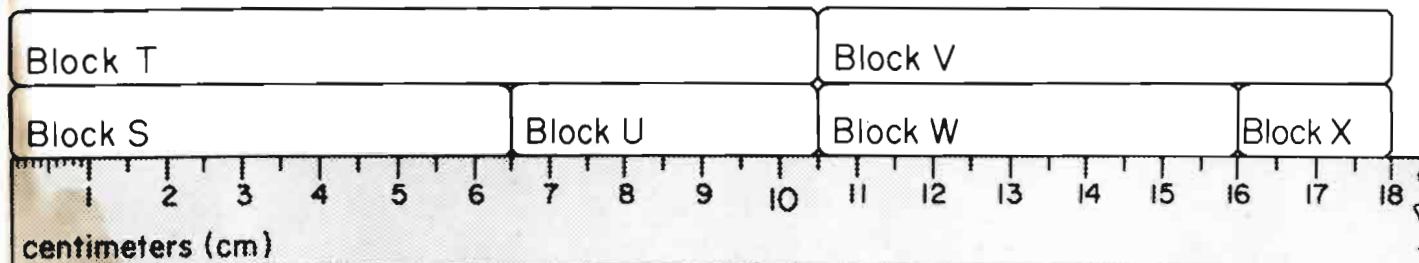
Tiles.....24¢

Aluminum Strips.....40¢

Paint 1 quart.....\$1.20

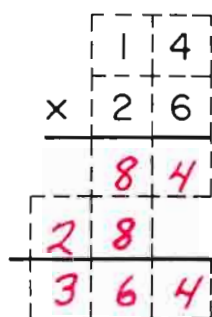
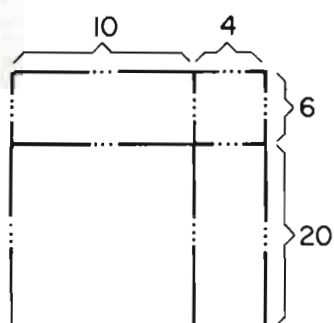
25% or $\frac{1}{4}$ off

10 Tiles	Sale Price	20 Aluminum Strips	Sale Price
	\$1.80		\$6.00
8 Aluminum Strips	\$2.40	$2\frac{1}{2}$ quarts Paint	\$2.25
4 quarts Paint	\$3.60	100 Tiles	\$18.00
30 Tiles	\$5.40	3 quarts Paint	\$2.70

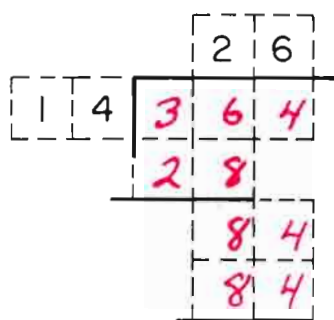
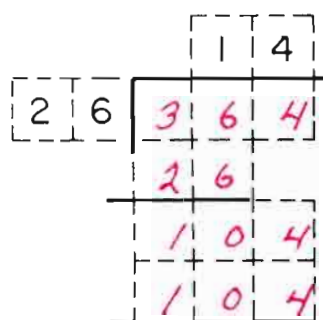


How do you feel?
¿Cómo se siente?

U	4 cm	W	5.5 cm	S + U	10.5 cm
W + X	7.5 cm	T + V	18 cm	U + W + X	11.5 cm



$$\begin{array}{r} 12 \\ 12 \\ 12 \\ + 12 \\ \hline 48 \end{array} \quad \begin{array}{r} 41 \\ 41 \\ 41 \\ + 41 \\ \hline 164 \end{array} \quad \begin{array}{r} 23 \\ 23 \\ 23 \\ + 23 \\ \hline 92 \end{array} \quad \begin{array}{r} 57 \\ 57 \\ 57 \\ + 57 \\ \hline 228 \end{array} \quad \begin{array}{r} 69 \\ 69 \\ 69 \\ + 69 \\ \hline 276 \end{array}$$



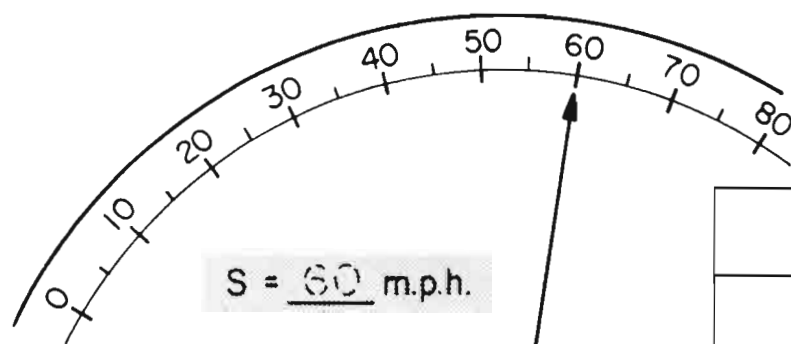
$$4 \times 800 = 3,200 \quad 60 \times 50 = 3,000$$

$$(8 \times 8) - (9 \times 6) = 10$$

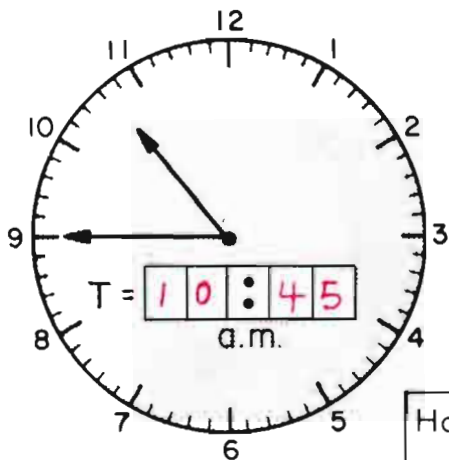
$$\frac{2}{3} = \frac{4}{6} \quad \frac{1}{8} = \frac{4}{32} \quad \frac{1}{4} = \frac{5}{20}$$

$$\frac{5}{8} + \frac{1}{4} = \frac{5}{8} + \frac{2}{8} = \frac{7}{8}$$

$$\frac{5}{6} - \frac{1}{3} = \frac{5}{6} - \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$$



$\frac{3}{4} \times S$	105 miles	S - 55	5 miles
$\frac{1}{3} \times 45 \text{ miles}$	60 miles	$S - (\frac{1}{3} \times S)$	40 m.p.h.
		$(2 \times S) + (\frac{1}{2} \times S)$	150 miles
		S - 18	42 m.p.h.



How many minutes in 2 hours?

¿Cuántos minutos hay en 12 horas?

120 min.

2 hours after time shown.

2 horas después de la hora indicada.

12:45 p.m.

$T + 2\frac{1}{2}$ hrs.

1:15 p.m.

How many minutes since mid-night?

¿Cuántos minutos han pasado desde la medianoche?

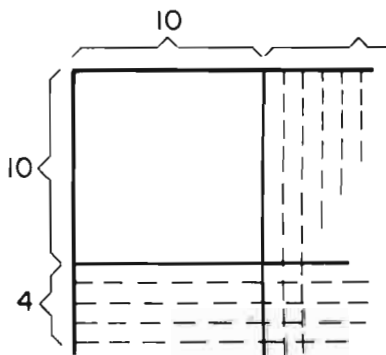
645 min.

Time Shown

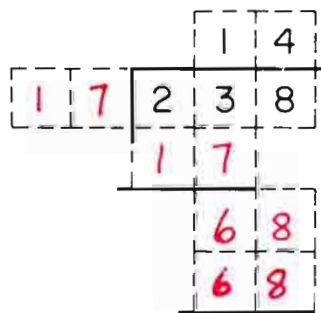
10:45

$T + 11$ hrs.

9:45 p.m.



$$14 \times 17 = 238$$

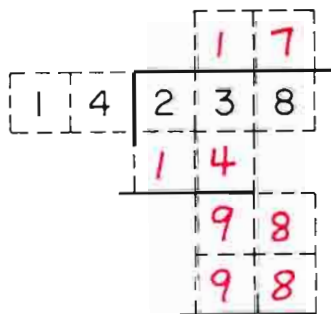


$$(7 \times 1) - (1 \times 6) = 1$$

$$(8 \times 8) - (9 \times 7) = 1$$

$$60 \times 90 = 5,400 \quad 200 \times 50 = 10,000$$

$$30 \times 800 = 24,000 \quad 100 \times 100 = 10,000$$



$$1\frac{2}{3} = \frac{5}{3}$$

$$2\frac{1}{3} = \frac{14}{6}$$

$$\frac{9}{4} = 2\frac{1}{4}$$

$$1\frac{11}{6} = 2\frac{5}{6}$$

$$\frac{2}{3} + \frac{1}{2} = \frac{4}{6} + \frac{3}{6} = \frac{7}{6} = 1\frac{1}{6}^*$$

$$\frac{1}{2} + \frac{3}{4} = \frac{2}{4} + \frac{3}{4} = \frac{5}{4} = 1\frac{1}{4}^*$$

How do you feel?

¿Cómo se siente?

150 (1¢)	15 (10¢)
1.70 (\$ 1)	17 (10¢)
35 (1¢)	3.5 (10¢)
789 (1¢)	7.89 (\$ 1)

\$ 1	10¢	1¢
15	= 150	= 1500
1	= 10	= 100
.1	= 1	= 10
.01	= .1	= 1
1.8	= 18	= 180
.5	= 5	= 50
.07	= .7	= 7

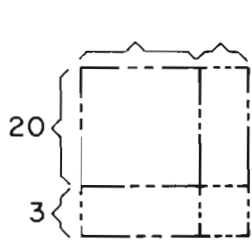
125 (10¢)	12.5 (\$ 1)
.7 × (\$ 1)	7 (10¢)
1.3 × (\$ 1)	130 (1¢)
4.5 × (10¢)	.45 (\$ 1)

<i>Sale</i> - 10% off prices shown	Jackets Chaquetas \$ 6.00	Shirts Faldas \$ 8.00	Sweaters Suéteres \$ 5.50	Ties Corbatas \$ 1.40
---------------------------------------	---------------------------------	-----------------------------	---------------------------------	-----------------------------

On Your Own

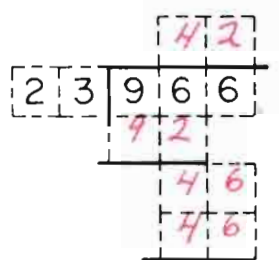
Usted Solo

Jackets Chaquetas	2	1	0	0			1	1
Shirts Faldas	0	0	0	0		1		1
Sweaters Suéteres	0	0	3	0	1	1	3	1
Ties Corbatas	0	1	0	7	2			1
Total Sale Price	\$ 12.00	\$ 7.40	\$ 16.50	\$ 9.80	\$ 8.30	\$ 13.50	\$ 22.50	\$ 20.90



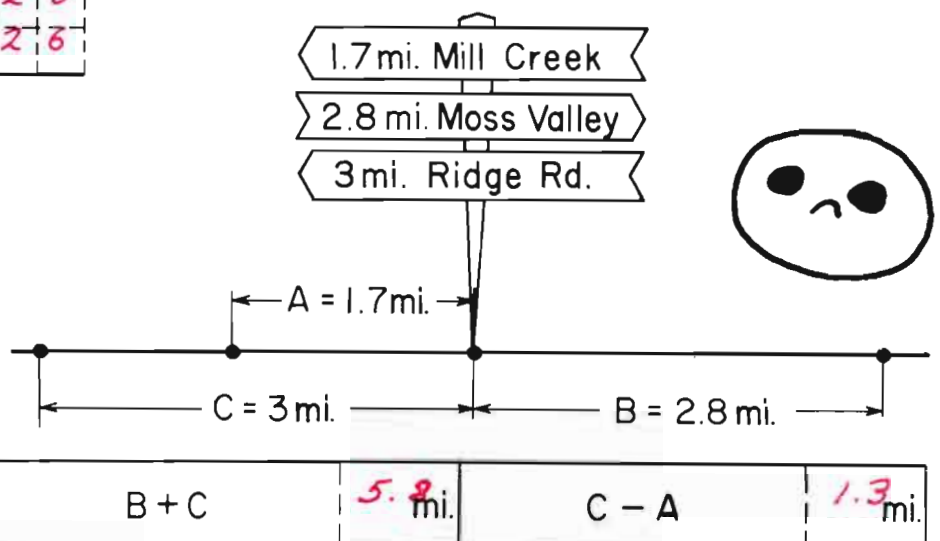
$$\begin{array}{r} 42 \\ \times 23 \\ \hline 126 \\ 84 \\ \hline 966 \end{array}$$

$$920 + 46 = 966$$



$$\begin{array}{r} 42 \\ \times 23 \\ \hline 126 \\ 84 \\ \hline 966 \end{array}$$

$2 \times A$	3 mi.
$A + B$	4.5 mi.
$B + A + A$	6.2 mi.
$2 \times B$	5.6 mi.
$2(A + B)$	9 mi.



Change to
"simplest form" or
"lowest terms"

Round off to the
nearest 10

Change to "equivalent
fractions" with "least
common denominator"

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

$$\frac{6}{9} = \frac{4}{6} = \frac{2}{3}$$

$$\frac{8}{100} = \frac{4}{50} = \frac{2}{25}$$

$$\frac{17}{34} \rightarrow \frac{20}{30}$$

$$\frac{112}{358} \rightarrow \frac{110}{360}$$

$$\frac{73}{96} \rightarrow \frac{70}{100}$$

$$\frac{96}{100} \rightarrow \frac{100}{100}$$

$$\frac{2}{3}, \frac{3}{4} \rightarrow \frac{8}{12}, \frac{9}{12}$$

$$\frac{1}{2}, \frac{1}{4} \rightarrow \frac{2}{4}, \frac{1}{4}$$

$$\frac{1}{3}, \frac{1}{2} \rightarrow \frac{2}{6}, \frac{3}{6}$$

Estimate each answer by "rounding off each factor to the nearest 10."
Then compare this "estimate" with the actual product.

estimate: $10 \times 20 = 200$

$$\begin{array}{r} 17 \\ \times 13 \\ \hline 51 \\ 170 \\ \hline 221 \end{array}$$

$$\begin{array}{r} \text{---} 221 \text{ larger} \\ - 200 \text{ smaller} \\ \hline 21 \text{ difference} \end{array}$$

estimate: $20 \times 20 = 400$

$$\begin{array}{r} 18 \\ \times 18 \\ \hline 144 \\ 180 \\ \hline 324 \end{array}$$

$$\begin{array}{r} \text{---} 400 \\ - 324 \\ \hline 76 \end{array}$$

	(25¢)	(5¢)	(1¢)
	2	0	4
+	1	3	3
	3	3	7

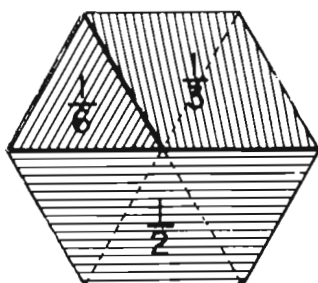
pennies

$$\begin{array}{r} \text{---} 54 \text{ ¢} \\ - 43 \text{ ¢} \\ \hline 97 \text{ ¢} \end{array}$$

\$1	(10¢)	(1¢)
3	8	1
-	1	5 9
	2	2 2

dimes

$$\begin{array}{r} \text{---} 38 \frac{1}{10} \text{ (10¢)} \\ - 15 \frac{9}{10} \text{ (10¢)} \\ \hline 22 \frac{2}{10} \text{ (10¢)} \end{array}$$



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

$$\frac{1}{3} - \frac{1}{6} = \frac{1}{6}$$

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

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

$$\frac{5}{6} - \frac{1}{3} = \frac{1}{2}$$



How do you feel ?

Change to
"equivalent fractions"
with the "least
common denominator"

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

$$\frac{1}{5}, \frac{1}{3} = \frac{3}{15}, \frac{5}{15}$$

$$\frac{2}{3}, \frac{3}{4} = \frac{8}{12}, \frac{9}{12}$$

"Round off to
the nearest 100"

$$175 \rightarrow 200$$

$$113 \rightarrow 100$$

$$909 \rightarrow 900$$

$$990 \rightarrow 1,000$$

$$1346 \rightarrow 1,300$$

Change to a "common
fraction" in "simplest
form" or "lowest terms"

$$50\% = \frac{1}{2}$$

$$25\% = \frac{1}{4}$$

$$10\% = \frac{1}{10}$$

$$75\% = \frac{3}{4}$$

Estimate answers by "rounding off" the "divisor" to the nearest 10 and the "dividend" to the nearest 100. Then compare this "estimate" with the actual result.

estimate: $400 \div 20 = 20$

$$\begin{array}{r} 18 \\ 22 \overline{) 396} \\ \underline{22} \\ 176 \\ \underline{176} \\ 0 \end{array}$$

$$\begin{array}{r} \text{---} 20 \text{ larger} \\ \text{---} 18 \text{ smaller} \\ \text{---} 2 \text{ difference} \end{array}$$

estimate: $1200 \div 40 = 30$

$$\begin{array}{r} 32 \\ 37 \overline{) 1184} \\ \underline{111} \\ 74 \\ \underline{74} \\ 0 \end{array}$$

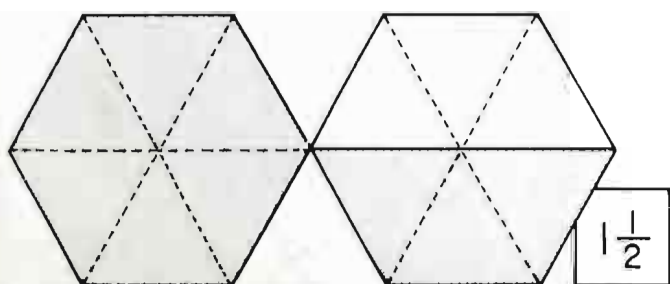
$$\begin{array}{r} \text{---} 32 \\ \text{---} 30 \\ \text{---} 2 \end{array}$$

yd.	ft.	in.
3	4	0
- 1 1 9		
2	1	9

feet
$12 \frac{1}{2}$ ft.
$4 \frac{3}{4}$ ft.
$7 \frac{3}{4}$ ft.

m	dm	cm
3	4	6
+ 2 7 7		
6	2	3

centimeters
346 cm
277 cm
623 cm



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

$$\frac{1}{2} = \frac{9}{18}$$

$$\frac{1}{2} - 1 = \frac{1}{2}$$

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

$$\frac{1}{2} - \frac{2}{3} = \frac{5}{6}$$



How do
you feel ?

Change to a "mixed number" in "simplest form" or "lowest terms"

Change to "equivalent fractions with other denominators"

Change to a decimal fraction

$$\frac{14}{6} = 2\frac{2}{6} = 2\frac{1}{3}$$

$$\frac{2}{3} = \frac{6}{9} = \frac{10}{15}$$

$$25\% = \frac{25}{100} = .25$$

$$\frac{22}{4} = 5\frac{2}{4} = 5\frac{1}{2}$$

$$\frac{5}{7} = \frac{10}{14} = \frac{25}{35}$$

$$\frac{3}{5} = \frac{6}{10} = .6$$

$$\frac{34}{8} = 4\frac{2}{8} = 4\frac{1}{4}$$

$$\frac{4}{5} = \frac{8}{10} = \frac{80}{100}$$

$$\frac{3}{25} = \frac{12}{100} = .12$$

Estimate each answer by "rounding off each factor to the nearest 10". Then compare this "estimate" with the actual product.

estimate: $80 \times 50 = 4,000$

$$\begin{array}{r} 76 \\ \times 54 \\ \hline 304 \\ 380 \\ \hline 4,104 \end{array}$$

$$\begin{array}{r} 4,104 \\ - 4,000 \\ \hline 104 \end{array}$$

larger
smaller
difference

estimate: $80 \times 80 = 6,400$

$$\begin{array}{r} 83 \\ \times 78 \\ \hline 664 \\ 581 \\ \hline 6,474 \end{array}$$

$$\begin{array}{r} 6,494 \\ - 6,400 \\ \hline 94 \end{array}$$

25¢	5¢	1¢
1	4	3

$$\begin{array}{r} 343 \\ \times 2 \\ \hline 686 \end{array}$$

nickels

$$\begin{array}{r} 9\frac{3}{5} \\ \times 2 \\ \hline 19\frac{1}{5} \end{array}$$

5¢

\$1	10¢	1¢
2	4	7

$$\begin{array}{r} 247 \\ \times 3 \\ \hline 741 \end{array}$$

dollars

$$\begin{array}{r} 2.47 \\ \times 3 \\ \hline 7.41 \end{array}$$

$$\frac{2}{10} + \frac{5}{10} = \frac{7}{10}$$

$$.2 + .5 = .7$$

$$\frac{15}{100} - \frac{7}{100} = \frac{8}{100}$$

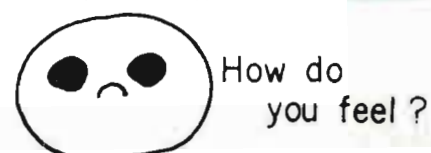
$$.15 - .07 = .08$$

$$\frac{7}{100} + \frac{7}{100} = \frac{14}{100}$$

$$.07 + .07 = .14$$

$$.4 + .3 = .7$$

$$.12 - .03 = .09$$



Change to "equivalent mixed numbers" with the "least common denominator"

Show other members of the same family

Change to a decimal fraction

$$3\frac{1}{5}, 1\frac{1}{2} = 3\frac{2}{10}, 1\frac{5}{10}$$

$$2\frac{2}{3} = 2\frac{8}{12} = 2\frac{20}{30}$$

$$125\% = \frac{125}{100} = 1.25$$

$$1\frac{3}{16}, 2\frac{7}{8} = 1\frac{3}{16}, 2\frac{14}{16}$$

$$3\frac{3}{5} = 3\frac{6}{10} = 3\frac{60}{100}$$

$$45\% = \frac{45}{100} = .45$$

$$1\frac{2}{3}, 3\frac{2}{7} = 1\frac{14}{21}, 3\frac{6}{21}$$

$$1\frac{5}{6} = 1\frac{10}{12} = 1\frac{35}{42}$$

$$\frac{4}{5} = \frac{8}{10} = .8$$

Estimate answers by rounding off "divisor" to nearest 10 and "dividend" to nearest 100. Then compare this "estimate" with the actual result.

estimate: $3200 \div 40 = 80$

estimate: $3500 \div 50 = 70$

$$\begin{array}{r} 82 \\ 39 \overline{) 3198} \\ \underline{312} \\ 78 \\ \underline{78} \\ 0 \end{array}$$

$$\begin{array}{r} \text{---} 82 \text{---} \text{larger} \\ \text{---} 80 \text{---} \text{smaller} \\ \text{---} 2 \text{---} \text{difference} \end{array}$$

$$\begin{array}{r} 67 \\ 53 \overline{) 3551} \\ \underline{318} \\ 371 \\ \underline{371} \\ 0 \end{array}$$

$$\begin{array}{r} \text{---} 70 \text{---} \\ \text{---} 67 \text{---} \\ \text{---} 3 \text{---} \end{array}$$



How do you feel?

25¢	5¢	1¢
2	0	0

$\div 5$

2	0
---	---

$$\begin{array}{r} \text{---} 2 \text{---} (25\text{¢}) \\ \div 5 \\ \text{---} .40 \text{---} (25\text{¢}) \end{array}$$

M	dm	cm
1	3	5

$\div 5$

2	7
---	---

meters

$$\begin{array}{r} \text{---} 1.35 \text{ M} \\ \div 5 \\ \text{---} .27 \text{ M} \end{array}$$

$$\frac{2}{3} \times \frac{1}{2} = \frac{1}{3} \text{ or } \frac{2}{6}$$

$$\frac{3}{4} \times \frac{2}{3} = \frac{1}{2} \text{ or } \frac{6}{12}$$

Change to
"simplest form" or
"lowest terms"

Change to a
"decimal fraction"

Change to a
"common fraction"
in "lowest terms"

$$\frac{50}{8} = \frac{25}{4} = 6\frac{1}{4}$$

$$\frac{27}{6} = \frac{9}{2} = 4\frac{1}{2}$$

$$\frac{54}{4} = \frac{27}{2} = 13\frac{1}{2}$$

$$\frac{57}{9} = \frac{19}{3} = 6\frac{1}{3}$$

$$50\% = \frac{50}{100} = .50$$

$$7\frac{1}{2} = \frac{75}{10} = 7.5$$

$$114\% = \frac{114}{100} = 1.14$$

$$\frac{18}{45} = \frac{2}{5} = .4$$

$$7\% = \frac{7}{100} = .07$$

$$75\% = \frac{75}{100} = \frac{3}{4}$$

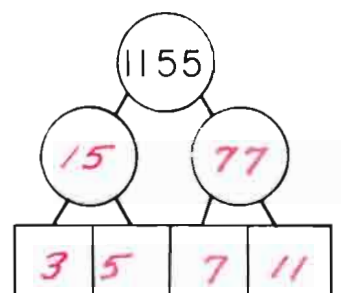
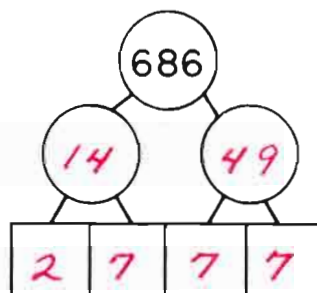
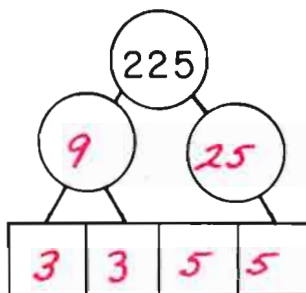
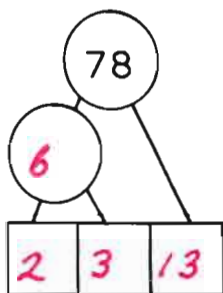
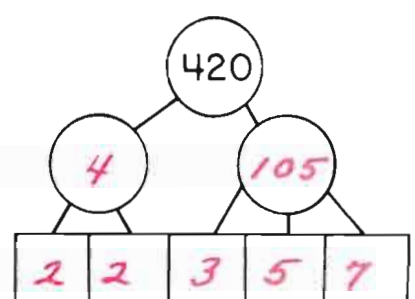
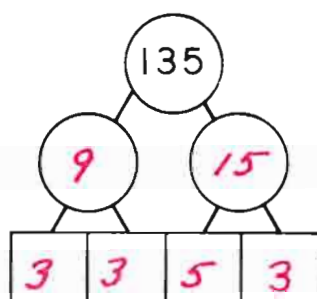
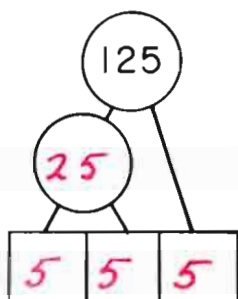
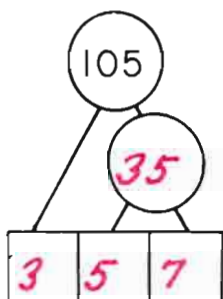
$$.16 = \frac{16}{100} = \frac{4}{25}$$

$$150\% = \frac{150}{100} = 1\frac{1}{2}$$

$$.008 = \frac{8}{1000} = \frac{1}{125}$$

$$1.45 = 1\frac{45}{100} = 1\frac{9}{20}$$

... all factors greater than 1



$$\begin{array}{r} .3 \\ + .4 \\ \hline .7 \end{array}$$

$$\begin{array}{r} .7 \\ + .7 \\ \hline 1.4 \end{array}$$

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

$$\begin{array}{r} 1.2 \\ - .4 \\ \hline .8 \end{array}$$

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

$$\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$$

$$\frac{2}{3} \times \frac{2}{3} = \frac{4}{9}$$

$$\frac{1}{4} \times \frac{2}{3} = \frac{1 \times 2}{4 \times 3} = \frac{2}{12}$$

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

$$\begin{array}{r} 6.3 \\ \times 2 \\ \hline 12.6 \end{array}$$

$$\begin{array}{r} .63 \\ \times .2 \\ \hline .126 \end{array}$$

$$\begin{array}{r} .07 \\ \times .3 \\ \hline .021 \end{array}$$

$$\frac{3}{4} \times \frac{1}{2} = \frac{3}{8}$$



How do
you feel ?

Change to
a "common fraction"
in "lowest terms"

Change to
"per cent"

Change to
"equivalent fractions"
with the "least
common denominator"

$$113\% = \frac{113}{100} = 1\frac{13}{100}$$

$$\frac{3}{4} = \frac{75}{100} = 75\%$$

$$\frac{1}{7}, \frac{3}{5} = \frac{5}{35}, \frac{21}{35}$$

$$\frac{144}{8} = \frac{36}{2} = 18$$

$$1\frac{3}{5} = \frac{160}{100} = 160\%$$

$$\frac{3}{8}, \frac{2}{3} = \frac{9}{24}, \frac{16}{24}$$

$$\frac{72}{54} = \frac{4}{3} = 1\frac{1}{3}$$

$$\frac{17}{25} = \frac{68}{100} = 68\%$$

$$\frac{3}{7}, \frac{4}{9} = \frac{27}{63}, \frac{28}{63}$$

Use only pairs of factors
"From the List"

2,3,5,7,11,13,17,19,23,29,31,37,41,43,47,53,59,
61,67,71,73,79,83,89,97,101,103,107,109,113

$$\begin{array}{r} 113 \\ \times 2 \\ \hline 226 \end{array}$$

$$\begin{array}{r} 59 \\ \times 3 \\ \hline 177 \end{array}$$

$$\begin{array}{r} 83 \\ \times 3 \\ \hline 249 \end{array}$$

$$\begin{array}{r} 97 \\ \times 3 \\ \hline 291 \end{array}$$

$$\begin{array}{r} 107 \\ \times 3 \\ \hline 321 \end{array}$$

$$\begin{array}{r} 67 \\ \times 5 \\ \hline 335 \end{array}$$

$$\begin{array}{r} 61 \\ \times 7 \\ \hline 427 \end{array}$$

$$\begin{array}{r} 109 \\ \times 7 \\ \hline 763 \end{array}$$

$$\begin{array}{r} 67 \\ \times 3 \\ \hline 201 \end{array}$$

$$\begin{array}{r} 37 \\ \times 7 \\ \hline 259 \end{array}$$

$$\begin{array}{r} 29 \\ \times 11 \\ \hline 319 \end{array}$$

$$\begin{array}{r} 79 \\ \times 5 \\ \hline 395 \end{array}$$

$$\begin{array}{r} 31 \\ \times 13 \\ \hline 403 \end{array}$$

$$\begin{array}{r} 83 \\ \times 7 \\ \hline 581 \end{array}$$

$$\begin{array}{r} 53 \\ \times 11 \\ \hline 583 \end{array}$$

$$\begin{array}{r} 103 \\ \times 11 \\ \hline 1133 \end{array}$$

Change to a
decimal fraction

Round off
to the nearest
whole number

Change to
"equivalent fractions" with
"convenient denominators"

$$2\frac{3}{5} = 2\frac{6}{10} = 2.6$$

$$13\frac{7}{17} \rightarrow \frac{13}{1}$$

$$\frac{2}{5} = \frac{6}{15} = \frac{26}{65}$$

$$7\frac{17}{20} = 7\frac{85}{100} = 7.85$$

$$7.09 \rightarrow \frac{7}{1}$$

$$\frac{4}{9} = \frac{16}{36} = \frac{36}{81}$$

$$173\% = \frac{173}{100} = 1.73$$

$$135.7 \rightarrow \frac{136}{1}$$

$$317\frac{5}{9} \rightarrow \frac{318}{1}$$



How do
you feel ?

