La división por esos mundos

Una ojeada rápida.
R. Vázquez 2016

Name _____ Date _____

372.6 ÷ 3

QUOTIENT	1	2	4	.	2
	DIVIDEND				
DIVISOR	HUNDREDS	TENS	ONES	.	TENTHS
3	3 -3 0	7 -6 1	2 +10 12 -12 0	.	6 -6 0

851.4 ÷ 6

QUOTIENT	1	4	1	.	9
	DIVIDEND				
DIVISOR	HUNDREDS	TENS	ONES	.	TENTHS
6	8 -6 2	5 +20 25 -24 1	1 +10 11 -6 5	.	4 +50 54 -54 0

302.4 ÷ 9

QUOTIENT				.	
	DIVIDEND				
DIVISOR	HUNDREDS	TENS	ONES	.	TENTHS
9	3	0	2	.	4

Un sistema bastante razonable de dividir.

Buena comprensión del proceso, concepto de número, algoritmo único para toda clase de números…
EEUU. 2014

Divide 372,6 euros entre 3 personas

372,6 : 3

	1			,	
Divisor	centena	decena	unidad		décima
3	3	7	2	,	6
	-3				
	0				

372,6 : 3

	1	2		,	
Divisor	centena	decena	unidad		décima
3	3	7	2	,	6
	-3	-6			
	0	1			

372,6 : 3

	1	2		,	
Divisor	centena	decena	unidad		décima
3	3	7	2		6
	-3	-6	+10		
	0	1	12	,	

372,6 : 3

	1	2	4	,	
Divisor	centena	decena	unidad		décima
3	3	7	2		6
	-3	-6	+10		
	0	1	12	,	
			-12		
			0		

372,6 : 3

	1	2	4	,	2
Divisor	centena	decena	unidad		décima
3	3	7	2		6
	-3	-6	+10		-6
	0	1	12	,	0
			-12		
			0		

Ms. Chandra wanted to become the best yodeler in the world! So she knew, like with anything, that to be good at something, you have to practice A LOT! So she practiced for 3,333 hours over the last 12 months. How much did Ms. Chandra yodel each month?

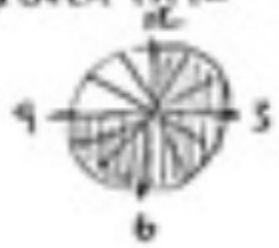
$$12 \overline{)3333} \quad 277\ \tfrac{9}{12}$$

$$-24$$
$$93$$
$$-84$$
$$93$$
$$-84$$
$$9 \leftarrow \text{remainder}$$

$12 \times 2 = 24$
$12 \times 3 = 36$
$12 \times 4 = 48$
$12 \times 5 = 60$
$12 \times 6 = 72$
$12 \times 7 = 84$
$12 \times 8 = 96$
$12 \times 9 = 108$

Siempre con restas parciales

(The remainder) We are talking about $\frac{9}{12}$ of an hour. Conveniently an hour is broken into 12 equal segments

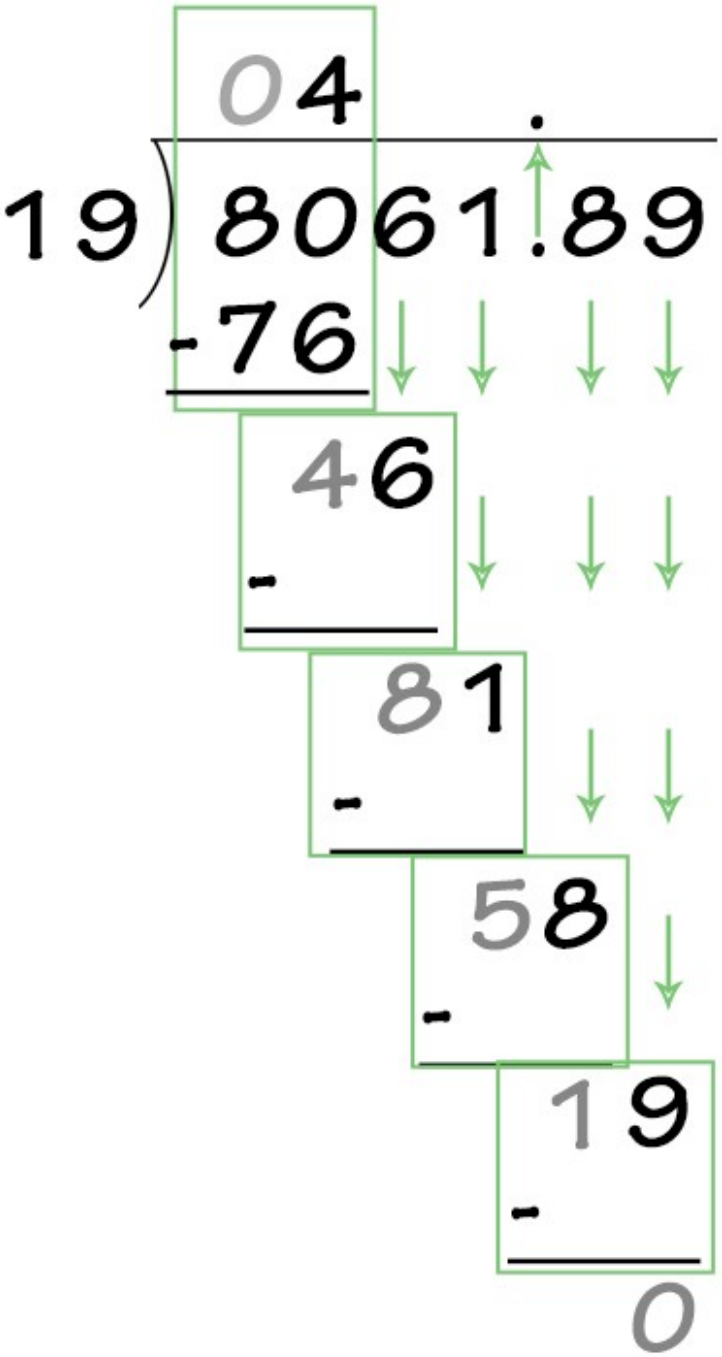


$\frac{3}{4}$ of an hour or 45 minutes

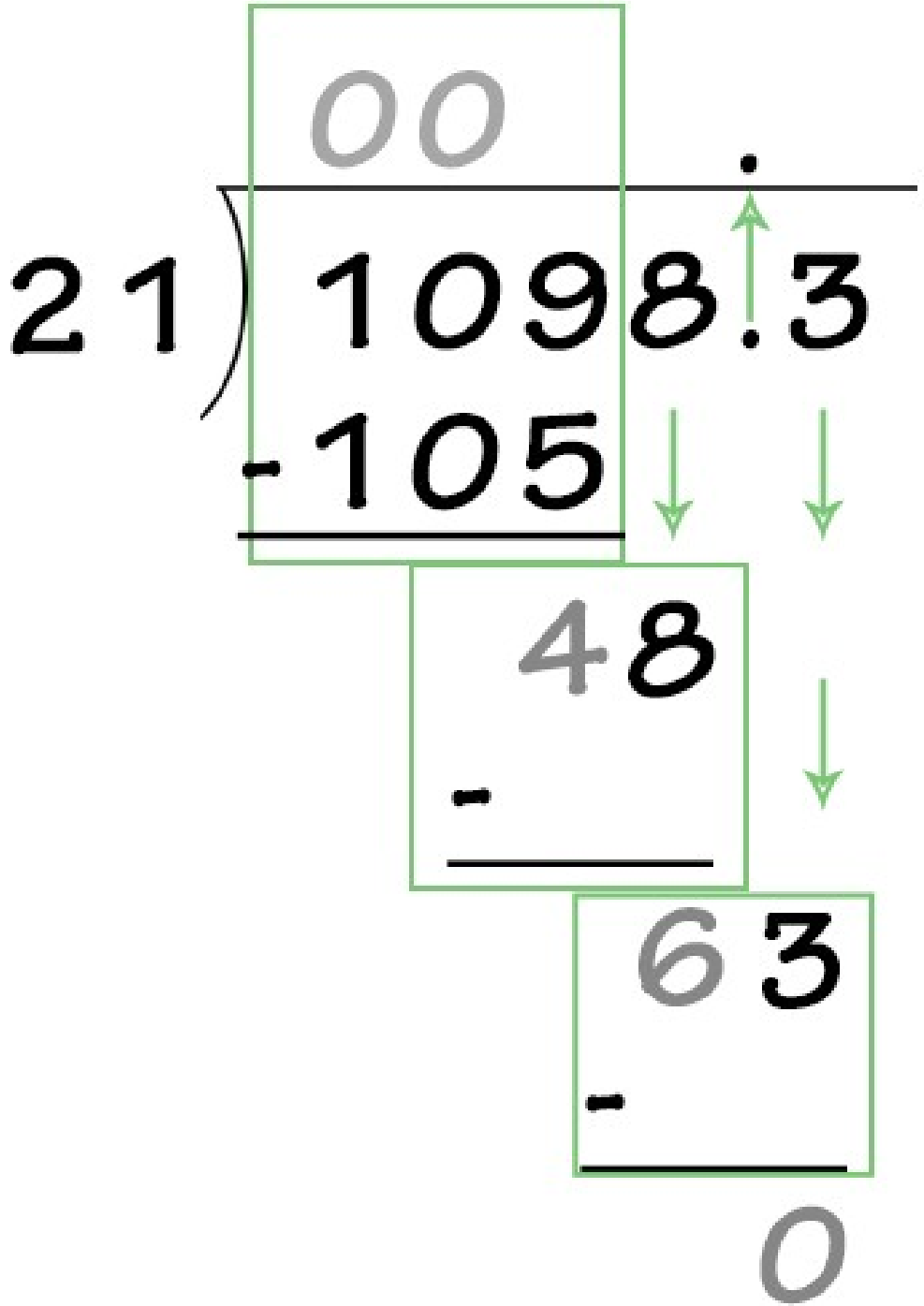
277 hrs 45 min of practice each month

Try the following problems on your own in your notebook.
Show your answer with a remainder, then report your answer with the remainder interpreted.

¿Por qué ponen el cociente encima del dividendo?



¿Por qué ponen el cociente encima del dividendo?

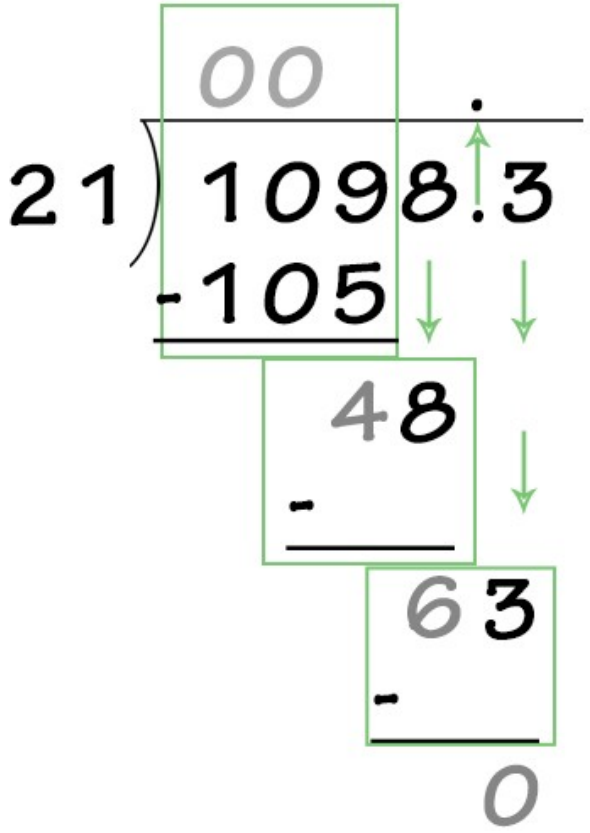


Es más intuitivo lo de “Diez no cabe, cojo 109.

Está más claro lo de ir bajando cifras.

No nos olvidamos cuando llega la coma.

Si hay resto, se ve qué orden de unidad es el resto.



Partial Quotient Division

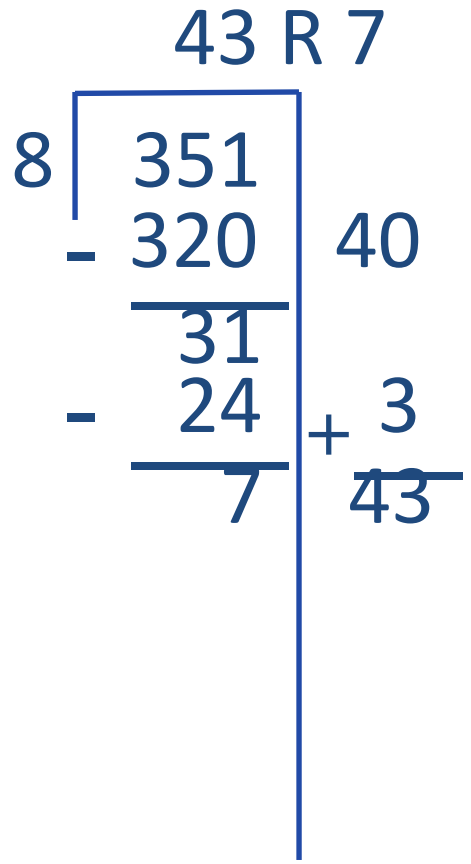
Step 1: Draw what looks like a hangman pole and place the dividend in the middle and the divisor on the outside.

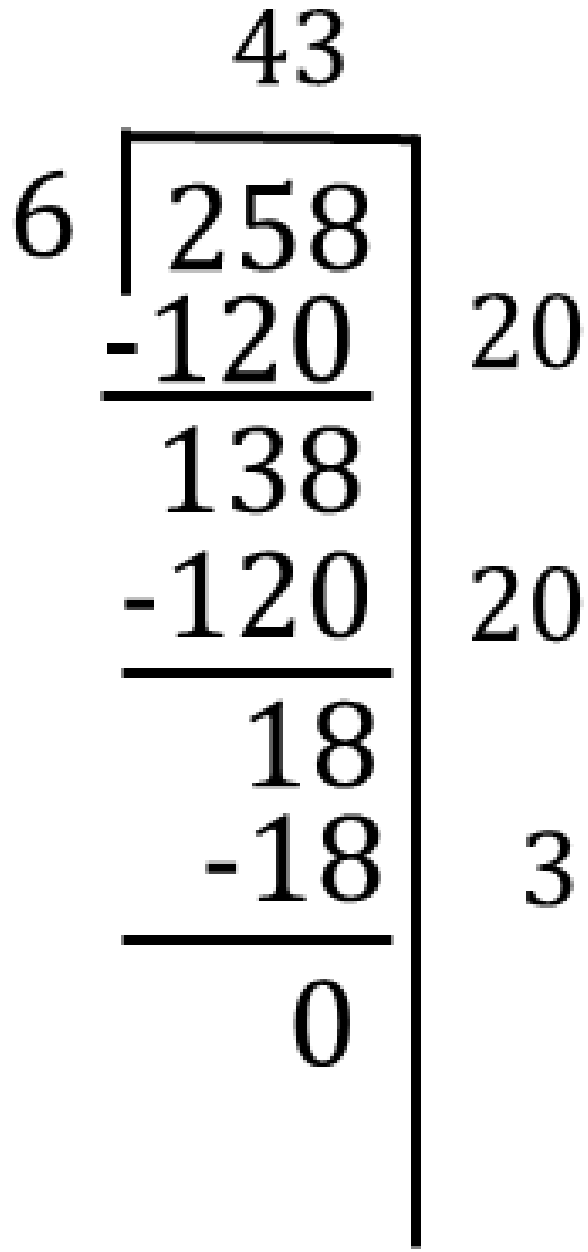
Step 2: Next, pull out groups of 8. For example, you can pull out 40 groups of 8 for a total of 320. Place the number of groups on the outside and the total that was pulled out on the inside below the dividend.

Step 3: Subtract the total number of groups you just pulled out from the dividend.

Step 4: Pull out 3 groups of 8 for a total of 24 and subtract again.

Step 5: You can't pull out any more groups of 8, so add the numbers on the right to get the quotient of 43. The 7 is your remainder.





258 : 6

Este sistema
es más libre
y se centra
en el número.

Write this: “BSCB”

Bunnies Sure Can Bite

B

S

C

B

B

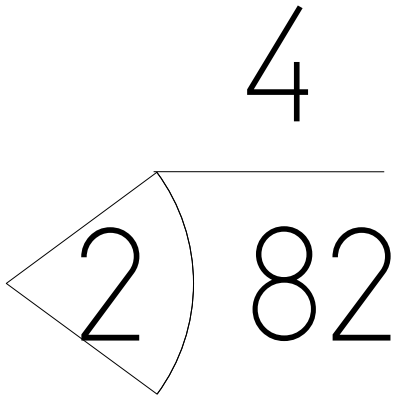
S

C

B

Look in the answer BOX…
Busca en la tabla del 2 que resultado se acerca más al primer número del dividendo, y escribe ese número arriba (en el cociente)

B= look for the answer box that is equal to the first ber in the dividend k) but is not bigger the dividend, (click) write the iplication number on of the number that are dividing k)



2 x 1 = 2
2 x 2 = 4
2 x 3 = 6
2 x 4 = 8
2 x 5 = 10
2 x 6 = 12
2 x 7 = 14
2 x 8 =16
2 x 9 = 18
2 x 10 = 20

B

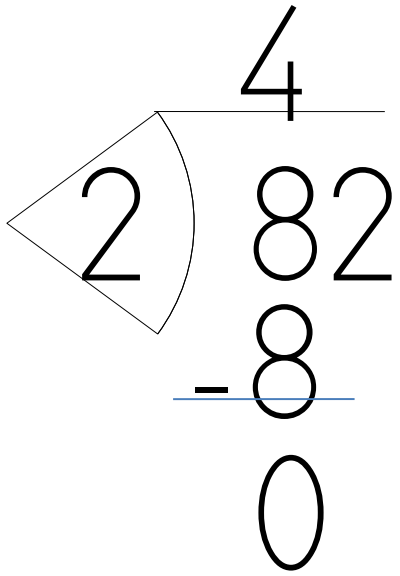
S

C

B

S= S U R	**S**ubtract the number in the box (click)from the number in the dividend that you are dividing (click)

Substract…
Resta el número obtenido del número en el dividendo

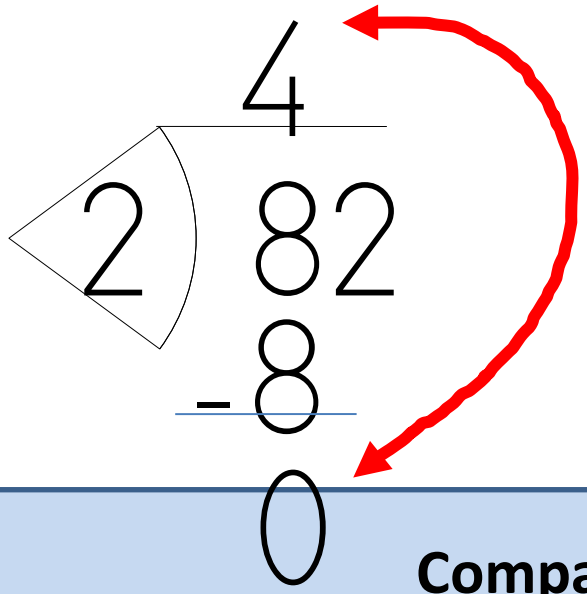


B

S

C

B



Compare…

Compara: el resultado de la resta con el divisor. Si es menor, vas bien.

C=

C
A
N

Compare the difference (the answer to the number you subtracted) (click) to the divisor (click) if it is smaller, or equal to the divisor, then go on to the next step.

In this case you would ask yourself, Is zero smaller, or equal to 2? Yes, so go on to the next step.

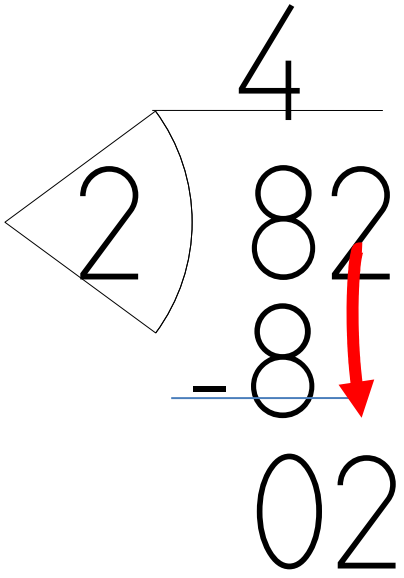
(click)

B

S

C

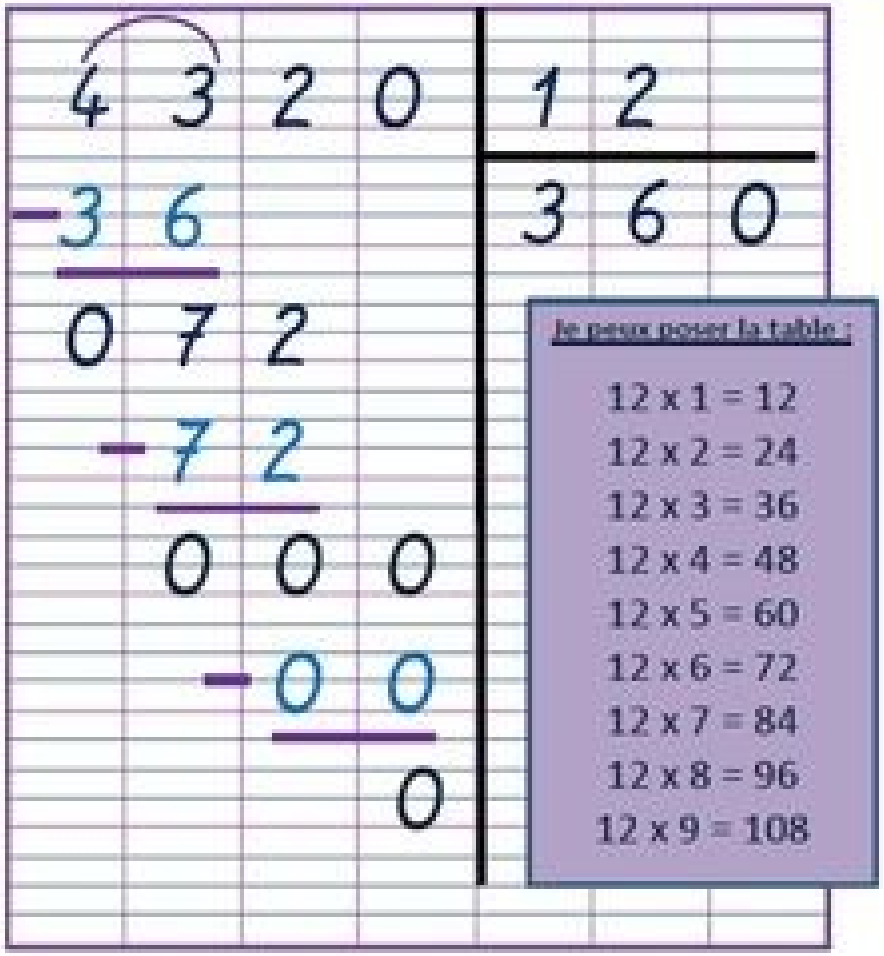
B



	ADD THE "2" BACK IN (click)
B= B I T E	bring down the next number (click twice)

Bring back……
Baja la cifra siguiente… y vuelve a comenzar

Division à deux chiffres



4320 : 12 = 360

Divisione con 2 cifre al divisore

1375	:	25
125		55
0125		
125		
000		

1375 = Dividendo

25 = Divisore

55 = Quoziente

0 = Resto

Dividendo = Quoziente x Divisore

1375 = 55 X 25

55 x
25 =
275 +
110 =
1375

2) Tim rechnet schrittweise:

48 : 4 = 12	428 : 4 = 107
40 : 4 = 10	400 : 4 = 100
8 : 4 = 2	28 : 4 = 7

Löse die Aufgaben mit Tims Rechenweg!

a) 39 : 3 = ____

b) 525 : 5 = ____

☆ c) 749 : 7 = ____

☆ d) 836 : 4 = ____

f) 13780 : 20 = 689

120

178

140

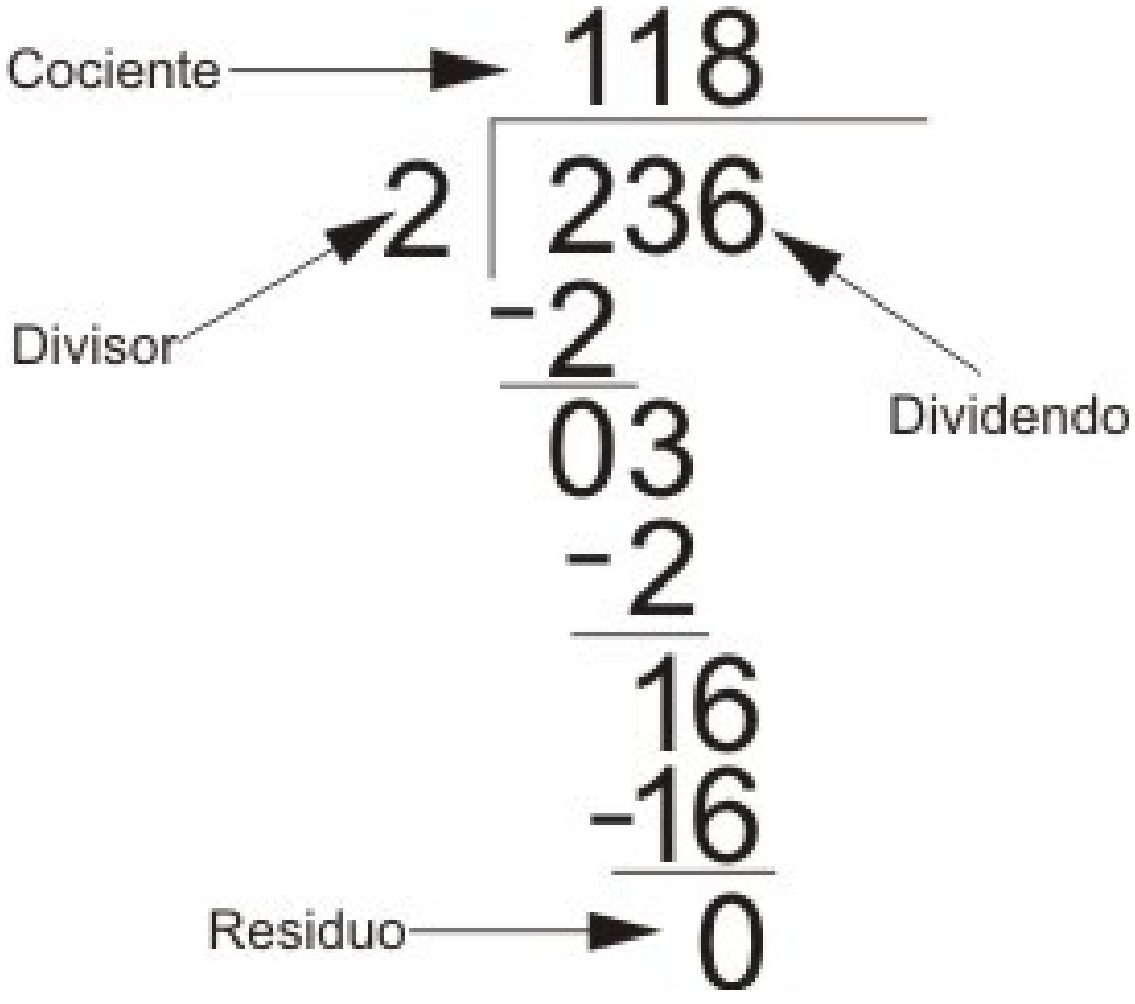
380

380

0

Liggande stolen

	Moment
158 792 | 5 - 5	Hur mycket är 5 gånger 8? 40 Skriv 40 under
29 - 25	
42 - 40	Subtrahera


Cociente
118
2
236
Divisor
Dividendo
-2
03
-2
16
-16
Residuo
0