

# Divide by 10, 100 and 1,000



1 Complete the calculations and sentences.

Use place value counters to help you.

Th	H	T	O	Tth	Hth
	●	●● ●●			

a)  $140 \div 10 =$

When the number is divided by 10 the counters move  place to the right.

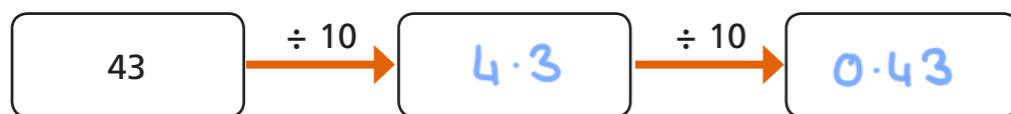
b)  $140 \div 100 =$

When the number is divided by 100 the counters move  places to the right.

c)  $140 \div 1,000 =$

When the number is divided by 1,000 the counters move  places to the right.

2 Complete the diagram.



3 a) Draw counters to represent the calculations.

$123 \div 1$

H	T	O	Tth	Hth	Thth
○	○○	○○○			

$123 \div 10$

H	T	O	Tth	Hth	Thth
○	○○	○○○			

*(Handwritten blue box around the first three columns with an arrow pointing to the right.)*

$123 \div 100$

H	T	O	Tth	Hth	Thth
○	○○	○○○			

*(Handwritten blue box around the first three columns with an arrow pointing to the right.)*

$123 \div 1,000$

H	T	O	Tth	Hth	Thth
○	○○	○○○			

*(Handwritten blue box around the first three columns with an arrow pointing to the right.)*

b) Complete the calculations.

$123 \div 1 =$

$123 \div 10 =$

$123 \div 100 =$

$123 \div 1,000 =$

What do you notice?





4 Complete the calculations.

a)  $16 \div 10 = 1.6$

d)  $332 \div 1,000 = 0.332$

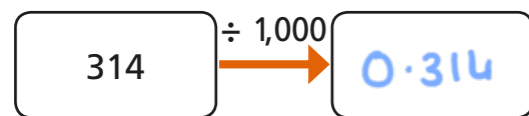
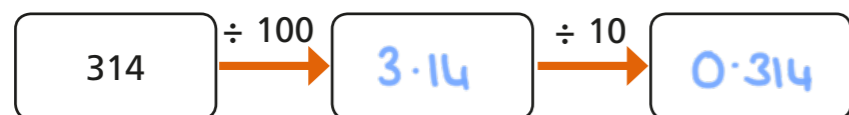
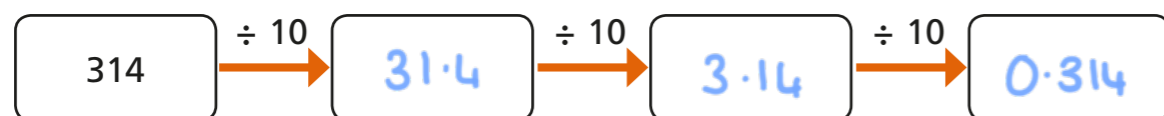
b)  $43.4 \div 100 = 0.434$

e)  $2.4 \div 200 = 0.012$

c)  $614 \div 1,000 = 0.614$

f)  $5.09 = 101.8 \div 20$

5 Complete the diagrams.



What do you notice? Why does this happen?

They all give the same final answer because  
 $10 \times 10 \times 10 = 100 \times 10 = 1,000$

6 Write  $>$ ,  $<$  or  $=$  to compare the number sentences.

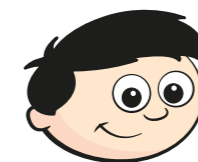
$5,400 \div 10 \div 10 \div 10 = 5,400 \div 1,000$

$60 \div 100 \div 10 < 600 \div 100$

$5.7 \div 10 = 57 \div 100$

$5,601 \div 1,000 > 5.601 \div 10$

7 Dexter is solving the calculation  $5,400 \div 100$



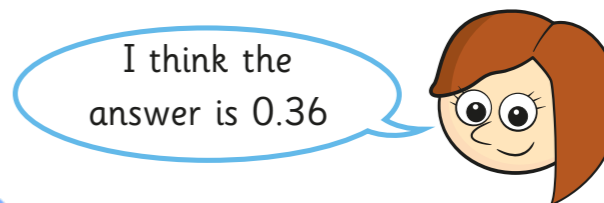
I think the answer is 54.00

Is Dexter correct? yes

Explain your reasoning.

54.00 is the same as 54

8 Rosie is solving the calculation  $3,600 \div 200$



I think the answer is 0.36

Is Rosie correct? NO

Explain your reasoning.

She has divide by 100 twice (10,000) she should have divided by 100 then 2 to give an answer of 18

