

Thursday 18th June y6

Today we are going to continue lesson one part B: dividing decimals.

Think slider where it helps!

Go to white rose y6 summer week 5 lesson 1 to watch the video again (if you feel you need to) before completing the worksheet below:

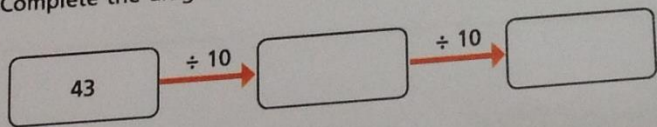
Divide by 10, 100 and 1,000

- 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

$123 \div 100$

H	T	O	Tth	Hth	Thth

$123 \div 1,000$

H	T	O	Tth	Hth	Thth

- 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) $16 \div 10 =$

b) $43.4 \div 100 =$

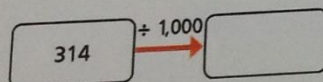
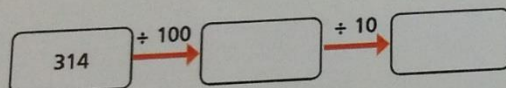
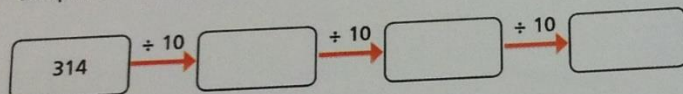
c) $614 \div 1,000 =$

d) $332 \div$ $= 0.332$

e) $2.4 \div 200 =$

f) $5.09 =$ $\div 20$

5 Complete the diagrams.



What do you notice? Why does this happen?

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? _____

Explain your reasoning.

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



I think the answer is 0.36

Is Rosie correct? _____

Explain your reasoning.

Divide by 10, 100 and 1,000

White
Rose
Maths

- 1 Complete the calculations and sentences.
Use place value counters to help you.

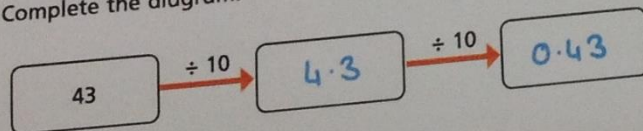
Th	H	T	O	Tth	Hth
	●	●●●●			

a) $140 \div 10 =$ 14
When the number is divided by 10 the counters move 1 place to the right.

b) $140 \div 100 =$ 1.4
When the number is divided by 100 the counters move 2 places to the right.

c) $140 \div 1,000 =$ 0.14
When the number is divided by 1,000 the counters move 3 places to the right.

- 2 Complete the diagram.



- 3 a) Draw counters to represent the calculations.

123 ÷ 1

H	T	O	Tth	Hth	Thth
○	○○	○○○			

123 ÷ 10

H	T	O	Tth	Hth	Thth
○	○○	○○○			

(Handwritten: A blue box is drawn around the H, T, and O columns, with an arrow pointing from the O column to the Tth column.)

123 ÷ 100

H	T	O	Tth	Hth	Thth
○	○○	○○○			

(Handwritten: A blue box is drawn around the H, T, and O columns, with an arrow pointing from the O column to the Hth column.)

123 ÷ 1,000

H	T	O	Tth	Hth	Thth
○	○○	○○○			

(Handwritten: A blue box is drawn around the H, T, and O columns, with an arrow pointing from the O column to the Thth column.)

- b) Complete the calculations.

$123 \div 1 =$ 123

$123 \div 10 =$ 12.3

$123 \div 100 =$ 1.23

$123 \div 1,000 =$ 0.123

What do you notice?

4 Complete the calculations.

a) $16 \div 10 = 1.6$

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

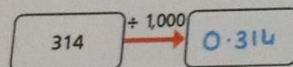
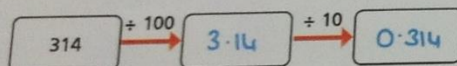
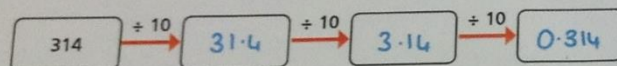
b) $43.4 \div 100 = 0.434$

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

