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 ÷ 10 = ☐

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

b) 140 ÷ 100 = ☐

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

c) 140 ÷ 1,000 = ☐

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

2 Complete the diagram.

43 → ÷ 10 → ☐ → ÷ 10 → ☐

3 a) Draw counters to represent the calculations.

123 ÷ 1

H	T	O	Tth	Hth	Thth

123 ÷ 10

H	T	O	Tth	Hth	Thth

123 ÷ 100

H	T	O	Tth	Hth	Thth

123 ÷ 1,000

H	T	O	Tth	Hth	Thth

b) Complete the calculations.

123 ÷ 1 = ☐

123 ÷ 10 = ☐

123 ÷ 100 = ☐

123 ÷ 1,000 = ☐

What do you notice?

4 Complete the calculations.

a) $16 \div 10 = \boxed{}$

d) $332 \div \boxed{} = 0.332$

b) $43.4 \div 100 = \boxed{}$

e) $2.4 \div 200 = \boxed{}$

c) $614 \div 1,000 = \boxed{}$

f) $5.09 = \boxed{} \div 20$

5 Complete the diagrams.

$\boxed{314} \xrightarrow{\div\ 10} \boxed{} \xrightarrow{\div\ 10} \boxed{} \xrightarrow{\div\ 10} \boxed{}$

$\boxed{314} \xrightarrow{\div\ 100} \boxed{} \xrightarrow{\div\ 10} \boxed{}$

$\boxed{314} \xrightarrow{\div\ 1,000} \boxed{}$

What do you notice? Why does this happen?

_____

_____

_____

_____

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

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

$60 \div 100 \div 10$ $\bigcirc$ $600 \div 100$

$5.7 \div 10$ $\bigcirc$ $57 \div 100$

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

7 Dexter is solving the calculation $5,400 \div 100$
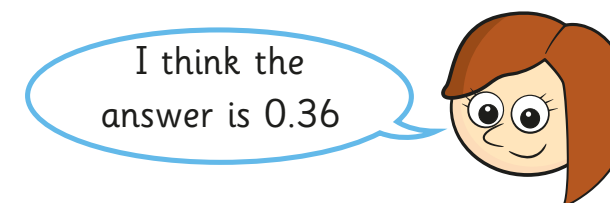
> I think the answer is 54.00

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.

_____

_____