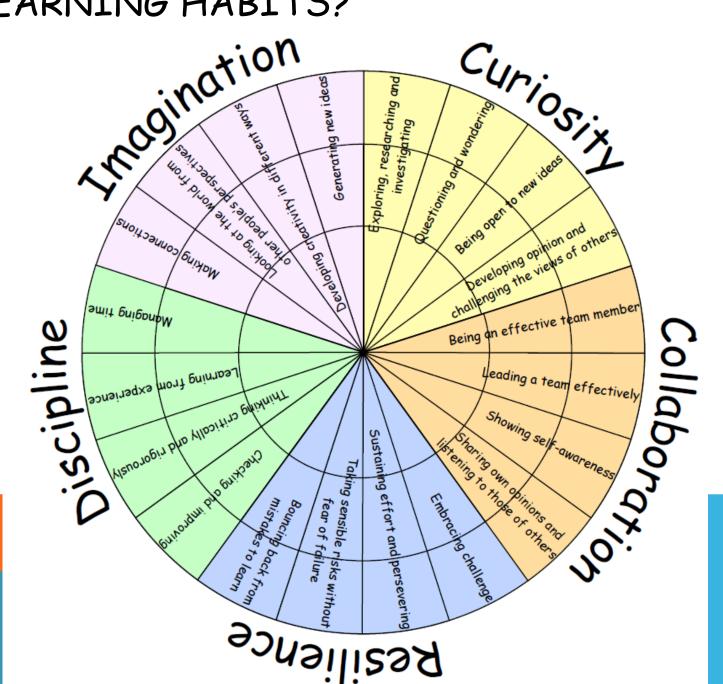
# RECALL

Using a place value chart and counters can you show why  $0.21 \times 10 = 2.1$ ?

0	Tth	Hth	Thth
•			

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# LEARNING HABITS?



# GUIDED PRACTICE

 1) 10 children make 12 m of paper chains. They make an equal length chain.

What length do they each make?

2) There are 20 children in the class altogether.

What length of paper chain would each child make if they each made an equal share of the 12 m?





How many different ways can you show these calculations?

# INTELLIGENT PRACTICE





# Complete these calculations

1) 
$$350 \div 10 =$$

$$3)350 \div 1000 =$$

# Complete these calculations

1) 
$$52 \div 10 =$$

$$3)5002 \div 1000 =$$

# Complete these calculations

1) 
$$6.7 \div 100 =$$

$$2)0.92 \div 10 =$$

$$3)10.02 \div 1000 =$$



### Complete these calculations

$$3) 240 \div 300 =$$

# DIVE DEEPER 1

1) Complete the calculations and sentences.

Th	Н	Т	0	Tth	Hth

a)  $140 \div 10 =$ 

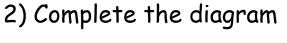
When the number is divided by 10 the counters move \_\_\_ place to the right.

b)  $140 \div 100 =$ 

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

c)  $140 \div 1000 =$ 

When the number is divided by 1000 the counters move \_\_\_ places to the right.





# DIVE DEEPER 1 ANSWERS

1) Complete the calculations and sentences.

Th	Н	Т	0	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) 
$$140 \div 1000 = 0.14$$

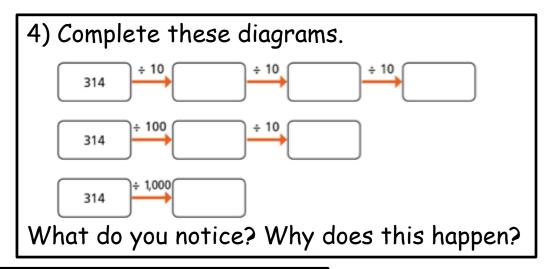
When the number is divided by 1000 the counters move 3 places to the right.



# DIVE DEEPER 2

3) Complete these calculations

What do you notice?



5) Write < > or = to compare the number sentence.

6) Kim is calculating 5400 ÷ 100

I think the answer is 54.00

Is Kim correct? Explain your reasoning.

# DIVE DEEPER 2 ANSWERS

3) Complete these calculations
$$123 \div 1 = 123$$

What do you notice?

4) Complete these diagrams.

$$314 \xrightarrow{\div 10} 31.4 \xrightarrow{\div 10} 3.14 \xrightarrow{\div 10} 0.314$$

$$314 \xrightarrow{\div 100} 0.314$$

$$314 \xrightarrow{\div 1000} 0.314$$
What do you notice? Why does this happen?

I think the answer is 54.00 Is Kim correct?

Kim is correct because her number has moved two places in a place value chart to the right.

# DIVE DEEPER 3

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

She says, 'I think the answer is 0.36.'

Is Rosie correct? Explain your reasoning

Complete these twos divisions. Which method do you think is most efficient?

a) 
$$40 \div 10 \div 5 =$$

c) 
$$600 \div 3 \div 1,000 =$$

b) 
$$40 \div 5 \div 10 =$$

d) 
$$600 \div 1,000 \div 3 =$$

Find pairs of calculations that have the same answer.

$$3.5 \div 10$$

# SELF-ASSESSMENT

- Some will even be able think how dividing by 10, 100 and 1,000 links to multiples of 10 eg. ÷ 20, ÷ 200 or ÷ 2,000
- Some will be able explain how dividing by 10, 100 and 1,000
- Most will be able to explain a rule to help divide decimals by 10, 100 and 1000
- All will be able to use a place value chart to help divide decimals by 10, 100 and

1000