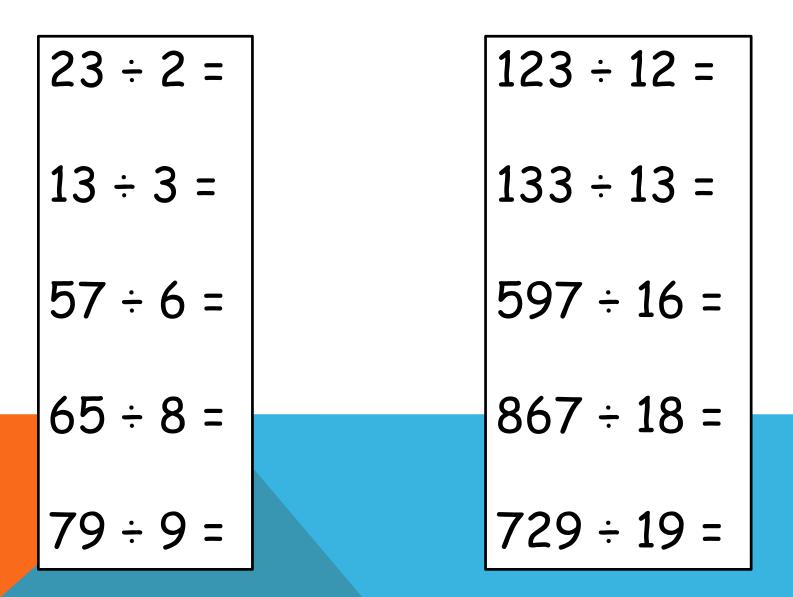
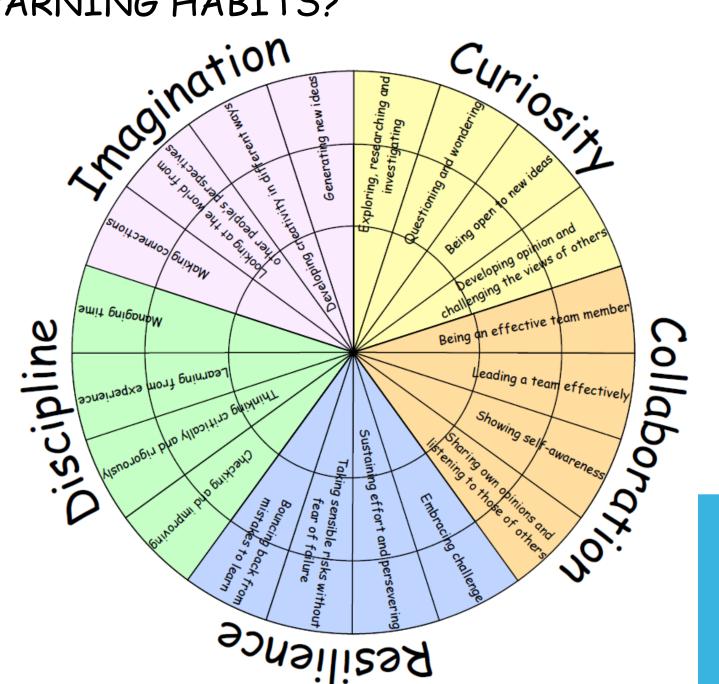
RECALL

Solve these divisions and write your remainders as a decimal





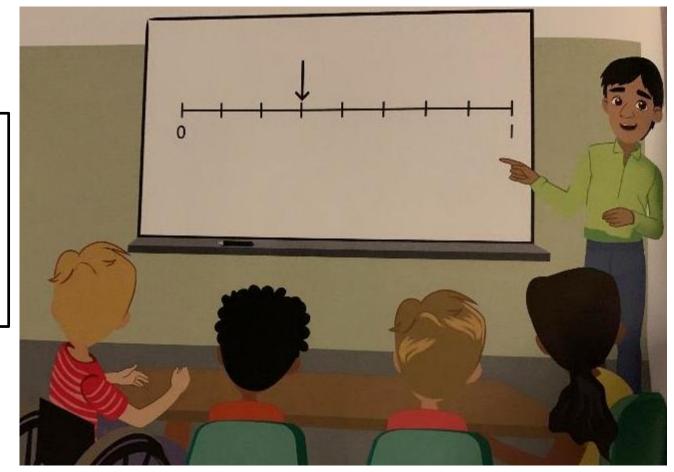
LEARNING HABITS?



GUIDED PRACTICE

1) What decimal number is the arrow pointing to?

2) Label all the decimals on the number line.





Can you write a set of rules about how you did this?

INTELLIGENT PRACTICE

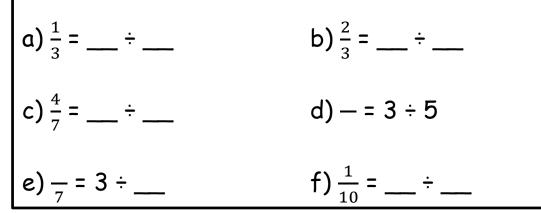




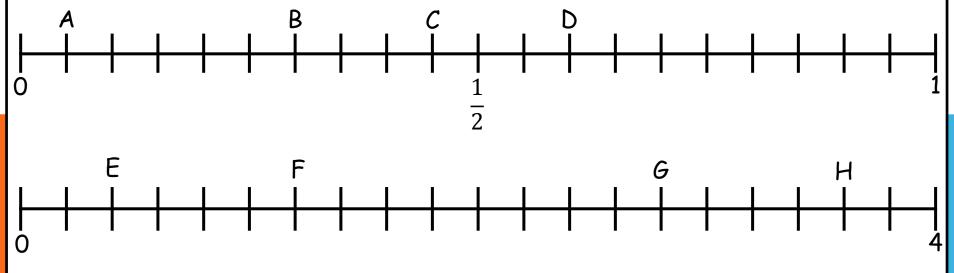
			<u> <u> </u></u>		
$\frac{1}{2}$ = 1 ÷ 2 =	$\frac{1}{5}$ =		$\frac{1}{3}$ =		
$\frac{1}{4} = 1 \div 4 =$	$\frac{2}{5}$ =		$\frac{1}{6}$ =		
$\frac{1}{5} = 1 \div 5 =$	$\frac{3}{5} =$		$\frac{1}{9} =$	$\frac{1}{9}$ =	
$\frac{1}{8} = 1 \div 8 =$	$\frac{4}{5}$ =		$\frac{1}{12}$ =		
What do you notice about the size of the decimals?			examples of recurrin	All these fractions are examples of recurring fractions, what do you think this means?	
		-		_	
$\frac{3}{9} =$	$\frac{4}{9}$ =	<u>5</u> 9 =	$\frac{8}{9}$ =		
$\frac{5}{8} =$	$\frac{3}{7}$ =	$\frac{7}{12}$ =	$\frac{5}{6}$ =		

DIVE DEEPER 1

1) Fractions can be expressed as divisions. For example, $\frac{1}{2} = 1 \div 2$ Write these fractions as divisions.



2) Write an equivalent fraction and a decimal for each of the fractions marked on the number line.



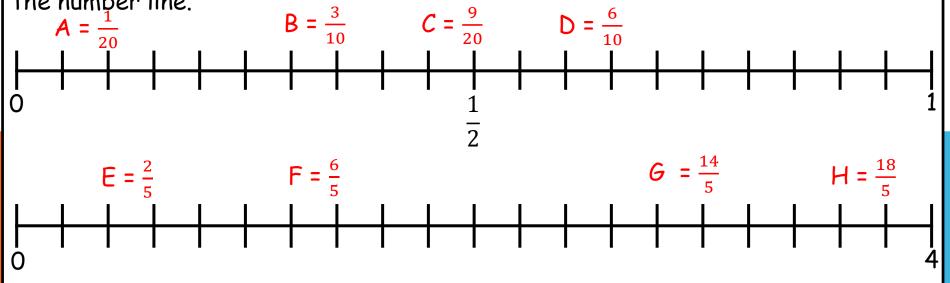
DIVE DEEPER 1 ANSWERS

1) Fractions can be expressed as divisions. For example, $\frac{1}{2} = 1 \div 2$ Write these fractions as divisions.

a) $\frac{1}{3} = 1 \div 3$	b) $\frac{2}{3}$ = 2 ÷ 3
c) $\frac{4}{7}$ = 4 ÷ 7	d) 3 = 3 ÷ 5

e)
$$\frac{3}{7} = 3 \div 7$$
 f) $\frac{1}{10} = 1 \div 10$

2) Write an equivalent fraction and a decimal for each of the fractions marked on the number line.



DIVE DEEPER 2

3) Write each of these calculations as a fraction and a decimal.							
3 ÷ 2	11 ÷ 8	5 ÷ 6	2 ÷ 3				
4) Jack says that, 'I converted $\frac{1}{2}$ to a decimal and got the answer 2.'							
Jack is inco	orrect.						
Explain the	e mistake that Jac	k has made					

5) Dora: To find $\frac{19}{20}$ as a decimal, I found $\frac{1}{20}$ as a decimal, then took it ways from 1.

Use Dora's method to find the decimal equivalent for $\frac{49}{50}$

6) Filip is thinking of a fractions.

When he converts it to a decimal, it is smaller than 0.5 but greater than 0.4.

What fraction could Filip be thinking of?

How many possibilities can you find?

DIVE DEEPER 2 ANSWERS

3) Write each of these calculations as a fraction and a decimal.

 $3 \div 2 = \frac{3}{2} = 1.5$ $11 \div 8 = \frac{11}{2} = 1.375$ $5 \div 6 = \frac{5}{2} = 0.833$ $2 \div 3 = \frac{2}{2} = 0.66$ 4) Jack says that, 'I converted $\frac{1}{2}$ to a decimal and got the answer 2.' Jack is incorrect. Jack is incorrect because he divided 2 by 1 not 1 by 2. 5) Dora: To find $\frac{19}{20}$ as a decimal, I found $\frac{1}{20}$ as a decimal, then took it ways from 1. Use Dora's method to find the decimal equivalent for $\frac{49}{50}$ $\frac{49}{20}$ = 0.98 $\frac{1}{50}$ = 0.02 1 - 0.02 = 0.98 6) Filip is thinking of a fraction. When he converts it to a decimal, it is smaller than 0.5 but greater than 0.4. What fraction could Filip be thinking of? $\frac{2}{5} > \frac{1}{2}$

How many possibilities can you find?

SELF-ASSESSMENT

- Some will even be able to reason about the magnitude of fractions and decimals equivalence
- Some will be able to spot patterns within decimal and fraction equivalences
- Most will be able to use division to covert fractions to decimals
- All will be able to recall decimal equivalence for $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$ and $\frac{1}{10}$