

Name: Friday 5th
 Date: Thurs 4th March

Dividing by 10

1 Complete the following calculations. Use the place value chart to help you.

a)

O	•	Tth
○ ○	•	

O	•	Tth
	•	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○

2 ones = 20 tenths

20 tenths $\div 10 =$ 2 tenths

$2 \div 10 =$ 0 . 2

b)

O	•	Tth
○ ○ ○ ○ ○ ○ ○ ○	•	

8 ones = 80 tenths

80 tenths $\div 10 =$ 8 tenths

So $8 \div 10 =$ 0 . 8

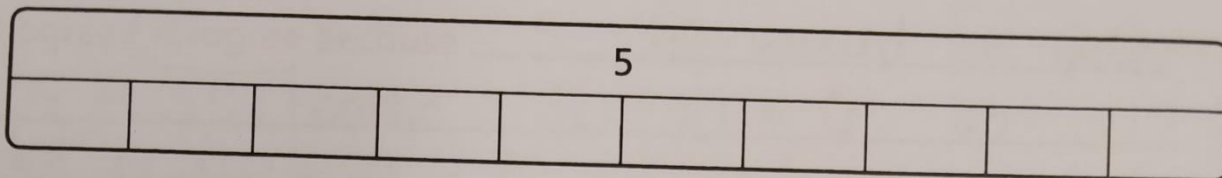
$7 = 70$ tenths
 $70 \div 10 = 7$ tenths
 0.7

c)

O	•	Tth
○ ○ ○ ○ ○ ○ ○	•	

$7 \div 10 =$ 0 . 7

- 2 Complete the following bar model and record the calculation that it represents.



$$\boxed{5} \div \boxed{10} = \boxed{0.5}$$

- 3 Max says, '1 divided by 10 is equal to 10 tenths.'

O	•	Tth
1	•	
	•	

O	•	Tth										
	•	<table border="1"> <tr> <td>$\frac{1}{10}$</td> <td>$\frac{1}{10}$</td> <td>$\frac{1}{10}$</td> <td>$\frac{1}{10}$</td> <td>$\frac{1}{10}$</td> </tr> <tr> <td>$\frac{1}{10}$</td> <td>$\frac{1}{10}$</td> <td>$\frac{1}{10}$</td> <td>$\frac{1}{10}$</td> <td>$\frac{1}{10}$</td> </tr> </table>	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$
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Explain Max's mistake and give the correct answer.

1 is equal to $\frac{10}{10}$ so 1 divided by 10
is equal to $\frac{1}{10}$ or 0.1.

- 4 Complete the following calculations.

a) $6 \div 10 = 0.\boxed{6}$

e) $\boxed{4} \div 10 = 0.4$

b) $8 \div \boxed{10} = 0.8$


f) $0.5 = \boxed{5} \div 10$

c) $1 \div 10 = \boxed{0.1}$

g) $0.3 = 3 \div \boxed{10}$

d) $0 \div 10 = \boxed{0}$

h) $\boxed{10} \div 10 = 1$


- 5 Do you agree or disagree with the following calculation? 

$$5 \div 10 = 2$$

I agree disagree because $5 \div 10$ would be 0.5.

$5 = 50$ tenths $50 \div 10 = 5$ so


$50 \text{ tenths} \div 10 = \frac{5}{10}$ which equals 0.5.

- 6 What patterns can you spot in the following calculations? 

$$1 \div 10 = 0.1$$

$$2 \div 10 = 0.2$$

$$3 \div 10 = 0.3$$

 When a single digit number is divided by 10, that number appears in the tenths column.

I notice that _____

(oops - sorry, that answer should be here!)

Reflect

Explain how to divide a 1-digit number by 10.

- First work out how many tenths in that number and divide it by 10.
- e.g. $8 \div 10 = \frac{80}{10} \div 10 = \frac{8}{10}$