## Year 6

## Wednesday 20<sup>th</sup> May 2020 Maths

LO: divide decimals by integers.

<u>Please note: this link only works on either pdf or the link above this powerpoint.</u>

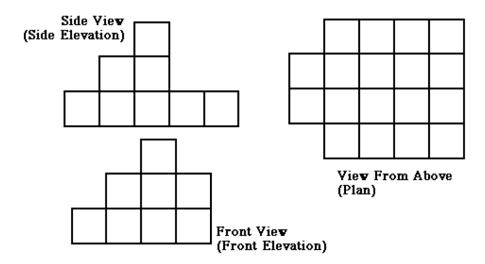
<u>The video lesson is available here – Summer Term - Week 5 - lesson 3</u>





## Brain Melter!

Hilda was playing with her building bricks when she made a tower like the one below:



How many bricks did Hilda use altogether?

Mr Rose is building some garden furniture.

Example:

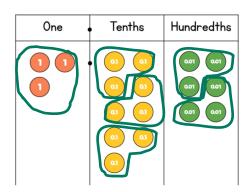


His plank of wood is 3.96 m long. He needs to cut it into 3 equal pieces.

How long is each piece?

Step 1:

I use this place value chart to help group the wood into 3s.



TIP: Remember the decimal point!

Or:

I use a bus stop method to divide the plank into 3 pieces.

1:

Does this place value chart represent....

4.2 m or 4.02m?

One	Tenths	Hundredths
	Termina	0.01 0.01 0.01 0.01 0.01 0.01

2:



3a:

3b:

Mr Rose has another plank of wood that is 4.08 m long.

He needs to cut it into four equal pieces.

How long is each piece?

3 4 3 . 0 8

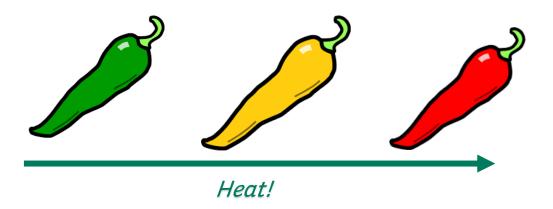
8 2





The independent work continues on the next two slides. There are 7 questions and 1 extension.

(Espanol - siete preguntas y una extensión.)





Use place value counters to work out the divisions.



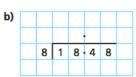
3 Brett uses short division to work out 13.2 ÷ 6



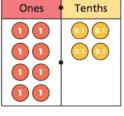
	0	2	· 2	
6	1	<sup>1</sup> 3	·¹2	

Use short division to work out the calculations.

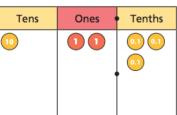
a)					
	7	2	2 -	4	







a) 8.4 ÷ 4 =





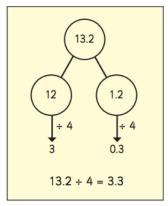
Tens	Ones	Tenths



4 Work out the divisions.

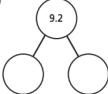
5 Esther solves 13.2 ÷ 4 by partitioning 13.2 into two numbers that are easier to divide.



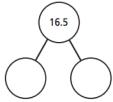


Use Esther's method to complete the part-whole model and calculation.

a)



b)



Compare answers with a partner. Did you partition your numbers in the same way?



6 Work out the divisions.

7 Fill in the missing numbers.

Ext: Complete the calculation.

How many different solutions can you find?

What patterns do you notice? Talk about it with a partner.





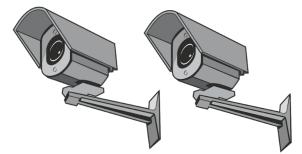
The next two slides contain the answers should you wish to check you work and reflect on what you understand.

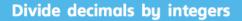












Use place value counters to work out the divisions.



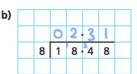
Brett uses short division to work out 13.2 ÷ 6



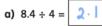
	0	2	· 2	
6	1	<sup>1</sup> 3	·¹2	

Use short division to work out the calculations.

)					
		0	3	2	
	7	2	2 -	4	









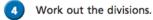
Ones	renths
1	01 01
	0.1 0.1

12.3 ÷ 3 =	ևվ
------------	----

Tens	Ones	Tenths
10	11	0.1 0.1



Tens	Ones	Tenths
Ø	0000	0
$\rightarrow$	0 0 0 0	0
	0000	0
	0 0 0 0	0

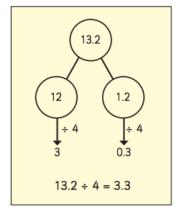


a) 
$$25.6 \div 8 = 3 \cdot 2$$

e) 
$$202.35 \div 3 = 67.45$$

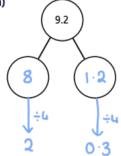
5 Esther solves 13.2 ÷ 4 by partitioning 13.2 into two numbers that are easier to divide.



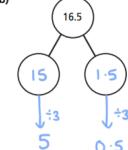


Use Esther's method to complete the part-whole model and calculation.





b)



Compare answers with a partner. Did you partition your numbers in the same way?



Work out the divisions.



$$3.6 \div 4 = \boxed{7 \cdot 2} \div 8$$

## Ext:

Complete the calculation.

How many different solutions can you find?

What patterns do you notice? Talk about it with a partner.



