

## Remote Learning Maths Work for Mrs Partridge & Mrs Stein's group

Monday 18<sup>th</sup> January 2021

Please find below the questions from your Powermaths books to practise your learning from our lesson today. If your Powermaths book B has arrived you will be working on Pages 6 –8 today and can write your answers in your book. If your Powermaths book hasn't arrived yet, please read the questions below and show ALL of your working out in your home learning books. You do not need to print out the questions and stick them in but you can, if you wish. Please use the place value chart that is on the website and below.

Below is a new video link for you to use to recap on the topic and methods taught this morning. As before, you do not need to complete the questions mentioned in the video.

Once you have opened the website page, click on the video 'Multiply by 10,100,1000'.

<https://whiterosemaths.com/homelearning/year-6/week-1-number-decimals/>

There is also a PowerPoint presentation of the video available if you do not have access to the internet.

Decimal Place Value Chart													
Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	●	tenths	hundredths	thousandths	ten thousandths	hundred thousandths	millionths
M	HTh	TTh	Th	H	T	O	●	t	h	th	tth	hth	m
							●						
							●						

Ask your parents to take a photograph of your work and send it in to: [year6parent@godinton.kent.sch.uk](mailto:year6parent@godinton.kent.sch.uk) by Wednesday.

If you are feeling confident, start at Question 3.

## Multiplying by 10, 100 and 1,000

**1** Draw counters to show each number multiplied by 10.

a)

T	O	•	Tth
	○	•	○ ○ ○

→

T	O	•	Tth
		•	

$1.3 \times 10 = \square$

b)

T	O	•	Tth	Hth
	○ ○ ○	•		○ ○ ○

→

T	O	•	Tth
		•	

$3.03 \times 10 = \square$

**2** a) Which of these represents the answer to  $10.08$  multiplied by  $100$ ?  
Tick your answer.

Th	H	T	O
1	0	0	8

Th	H	T	O
1	0	8	0

H	T	O	•	Tth
1	0	0	•	8

b) Which of these represents the answer to  $8.103$  multiplied by  $1,000$ ?  
Tick your answer.

Th	H	T	O
8	1	3	0

Th	H	T	O
8	1	0	3

H	T	O	•	Tth
8	1	0	•	3

c) What is  $0.012$  multiplied by  $1,000$ ?

$0.012 \times 1,000 = \square$

3 Complete these calculations.

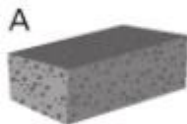
a)  $1.1 \times 10 = \square$     b)  $\square = 99.9 \times 100$     c)  $2.5 \times 10 = \square$   
 $1.2 \times 10 = \square$      $\square = 999.9 \times 100$      $2.5 \times 20 = \square$   
 $1.02 \times 10 = \square$      $0.999 \times 100 = \square$      $2.5 \times 200 = \square$   
 $\square = 1.02 \times 100$      $9.999 \times 1,000 = \square$      $2.5 \times 2,000 = \square$

4 a) A builder orders 400 bricks. One brick costs £1.50. What will be the total cost of the order?

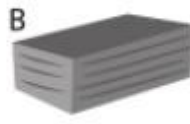


The total cost of the order will be  $\square$ .

b) There are 500 of each type of brick. What is the total mass of all the bricks?



0.8 kg



1.2 kg

The total mass of all the bricks is  $\square$ .



5 Bella says that when you multiply 5.02 by 100, you get 520. Explain her mistake using a place value grid.



6 Complete each calculation.

a)  $0.025 \times 100 = 10 \times \square$

$3.5 \times 40 = 400 \times \square$

$1,000 \times 1.01 = 101 \times \square$

$2.5 \times 200 = \square \times 100$

$\square \times 1,000 = 10 \times 9$

$5,000 \times \square = 50 \times 3$

b)  $0.004 \times \blacktriangle = \star \times 0.04$

How many different solutions can you find?

	Solution 1	Solution 2	Solution 3	Solution 4	Solution 5	Solution 6	Solution 7
$\blacktriangle$							
$\star$							




## Reflect

- When multiplying decimals by 10, 100 and 1,000, I will \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Additional Challenge should you have time to do this!

Lesson 1

 Fill in the missing numbers in these calculations

$$32.4 \times \boxed{\phantom{000}} = 324$$

$$1.562 \times 1,000 = \boxed{\phantom{000}}$$

$$\boxed{\phantom{000}} \times 100 = 208$$

$$4.3 \times \boxed{\phantom{000}} = 86$$

Dora says,



When you multiply by 100, you should add two zeros.

Do you agree?  
Explain your thinking.



