

Maths Homework (14.01.22)

This week we have been learning how to multiply and divide by 10, 100 and 1000.

Please complete pages 6 -7 in your Power Maths book 6B, which you should have collected from school when they were handed out. Page 8 is a challenge for you to complete, if you wish.

You may want to use the pages below to help you.

Unit 7: Decimals, Lesson 68

Multiplying by 10, 100 and 1,000

1 Draw counters to show each number multiplied by 10.

a)

T	O	.	Tth
	●	.	●●●

 $\longrightarrow$

T	O	.	Tth
		.	

$1.3 \times 10 = \square$

b)

T	O	.	Tth	Hth
	●●●	.		●●●

 $\longrightarrow$

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) $1.1 \times 10 = \boxed{}$

b) $\boxed{} = 99.9 \times 100$

c) $2.5 \times 10 = \boxed{}$

$1.2 \times 10 = \boxed{}$

$\boxed{} = 999.9 \times 100$

$2.5 \times 20 = \boxed{}$

$1.02 \times 10 = \boxed{}$

$0.999 \times 100 = \boxed{}$

$2.5 \times 200 = \boxed{}$

$\boxed{} = 1.02 \times 100$

$9.999 \times 1,000 = \boxed{}$

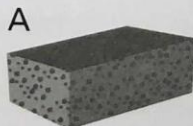
$2.5 \times 2,000 = \boxed{}$

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 $\boxed{}$.

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 $\boxed{}$.



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



CHALLENGE

6 Complete each calculation.

a) $0.025 \times 100 = 10 \times \boxed{}$

$3.5 \times 40 = 400 \times \boxed{}$

$1,000 \times 1.01 = 101 \times \boxed{}$

$2.5 \times 200 = \boxed{} \times 100$

$\boxed{} \times 1,000 = 10 \times 9$

$5,000 \times \boxed{} = 50 \times 3$

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
$\blacktriangle$							
$\star$							

