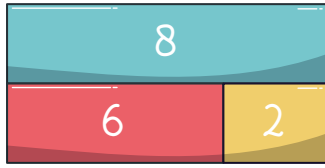


Multiply by 10, 100 and 1,000



Pictorial



1) Use the place value grid below to answer the following questions:

$$365 \times 10 =$$

$$365 \times 100 =$$

$$365 \times 1,000 =$$

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	.	tenths	hundredths

Multiply by 10, 100 and 1,000

$2+2=4$
Fluency



2)

$$a) 34 \times 100 =$$

$$e) 2.9 \times 1,000 =$$

$$b) 473 \times 1,000 =$$

$$f) 7.32 \times 100 =$$

$$c) 48 \times 10 =$$

$$g) 3.18 \times 10 =$$

$$d) 3.7 \times 100 =$$

Multiply by 10, 100 and 1,000



Comparing



3) Use <, > or = to compare the following:

$$384 \times 10$$

$$3.84 \times 1,000$$

$$7.4 \times 100$$

$$74 \times 100$$

Multiply by 10, 100 and 1,000



Explanation



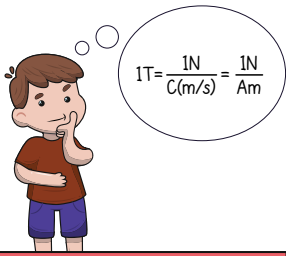
4) Beth says:

When I multiply by 10, 100 or 1,000,
I just add zeros to my number.



Explain why Beth is incorrect.

Multiply by 10, 100 and 1,000



Problem solving



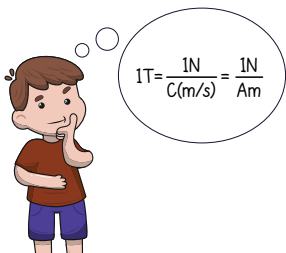
5) Use the digit cards to complete the calculations. You can use each card more than once.



$$1 \text{ ____} \times 100 = 1 \text{ ____} 00$$

$$\text{____} 8 \times 100 = \text{____} 0$$

Multiply by 10, 100 and 1,000

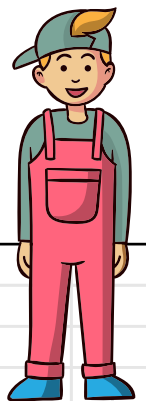


Problem solving



6) Jamie is buying wood to make a shed. He needs 1,000 planks of wood, which come in packs of 10. Each pack costs £7.95. How much will he need to spend?

He also needs to buy paint, which costs £14.60 a tin. He needs 8 tins of paint. How much does he spend altogether?



Multiply by 10, 100 and 1,000

8	
6	2

Pictorial



ANSWERS

1) Use the place value grid below to answer the following questions:

$$365 \times 10 = 3,650$$

$$365 \times 100 = 36,500$$

$$365 \times 1,000 = 365,000$$

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	.	tenths	hundredths

Multiply by 10, 100 and 1,000

$$2+2=4$$

Fluency



ANSWERS

2)

$$a) 34 \times 100 = 3,400$$

$$e) 2.9 \times 1,000 = 2,900$$

$$b) 473 \times 1,000 = 473,000$$

$$f) 7.32 \times 100 = 732$$

$$c) 48 \times 10 = 480$$

$$g) 3.18 \times 10 = 31.8$$

$$d) 3.7 \times 100 = 370$$

Multiply by 10, 100 and 1,000



Comparing



ANSWERS

3) Use $<$, $>$ or $=$ to compare the following:

$$384 \times 10$$

3,840



$$3.84 \times 1,000$$

3,840

$$7.4 \times 100$$

740



$$74 \times 100$$

7,400

Multiply by 10, 100 and 1,000



Explanation

E

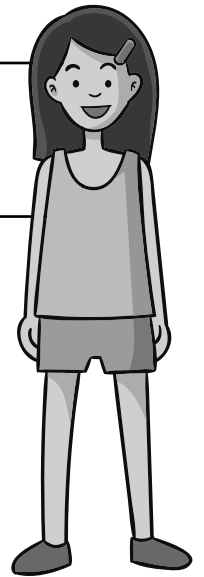
ANSWERS

4) Beth says:

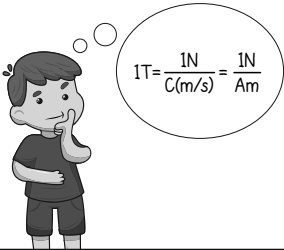
When I multiply by 10, 100 or 1,000, I just add zeros to my number.

Explain why Beth is incorrect.

Beth is incorrect because, if she was multiplying a decimal by 10, 100 or 1,000, adding zeros would not move the number into its new place value place. It would keep the value of the number the same. E.g. 1.4×10 by adding a zero would be 1.40.



Multiply by 10, 100 and 1,000



Problem solving

E

ANSWERS

5) Use the digit cards to complete the calculations. You can use each card more than once.

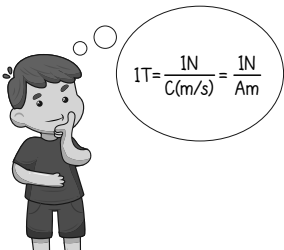


$$1 \underline{7} \times 100 = 1 \underline{7} 00$$

$$\underline{4} \underline{8} \times 100 = \underline{480} 0$$

(various answers)

Multiply by 10, 100 and 1,000



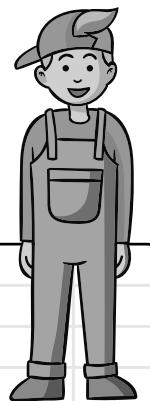
Problem solving

E

ANSWERS

6) Jamie is buying wood to make a shed. He needs 1,000 planks of wood, which come in packs of 10. Each pack costs £7.95. How much will he need to spend?

He also needs to buy paint, which costs £14.60 a tin. He needs 8 tins of paint. How much does he spend altogether?



$$7.95 \times 100 = \text{£}795 \text{ for the wood.}$$

$$14.60 \times 8 = \text{£}116.80$$

$$795 + 116.80 = \text{£}911.80$$