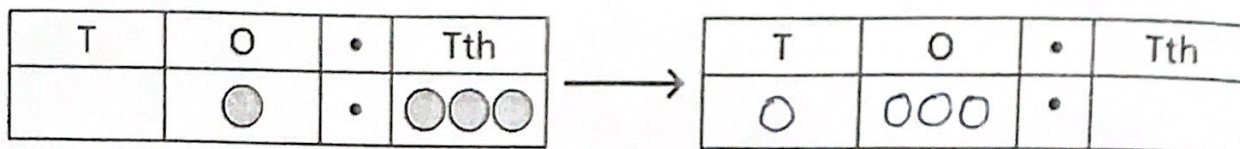


# Multiplying by 10, 100 and 1,000

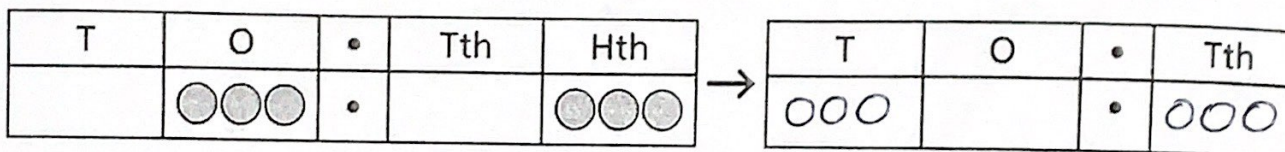
1 Draw counters to show each number multiplied by 10.

a)



$$1.3 \times 10 = \boxed{13}$$

b)



$$3.03 \times 10 = \boxed{30.3}$$

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?

$$0.012 \times 1,000 = \boxed{12}$$

3 Complete these calculations.

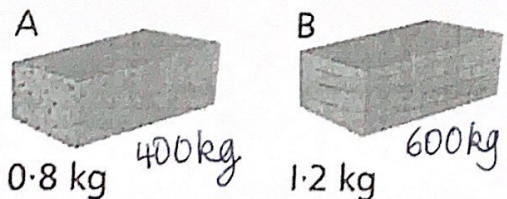
a)  $1.1 \times 10 = 11$     b)  $9990 = 99.9 \times 100$     c)  $2.5 \times 10 = 25$   
 $1.2 \times 10 = 12$      $99990 = 999.9 \times 100$      $2.5 \times 20 = 50$   
 $1.02 \times 10 = 10.2$      $0.999 \times 100 = 99$      $2.5 \times 200 = 500$   
 $102 = 1.02 \times 100$      $9.999 \times 1,000 = 9999$      $2.5 \times 2,000 = 5000$

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

$£1.50 \times 4 = £6.00$   
 $6 \times 100 = 600$

The total cost of the order will be **£600**.

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



$0.8 \times 100 = 80$   
 $80 \times 5 = 400$   
 $1.2 \times 100 = 120$   
 $120 \times 5 = 600$   
 $400 + 600 = 1000$

The total mass of all the bricks is **1000kg**.

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

