

**Homework Focus: To multiply whole numbers and decimals by 10, 100 and 1,000**

1. Choose the correct answer to the calculation.

a.  $521 \times 100 =$

5,210      52,100      25,100

b.  $7,954 \times 10 =$

79,540      75,940      7,964

2. Complete the calculation

\_\_\_\_\_ =  $85 \times 100$

\_\_\_\_\_ =  $3.4 \times 1,000$

\_\_\_\_\_ =  $0.56 \times 10$

\_\_\_\_\_ =  $45 \times 1,000$

\_\_\_\_\_ =  $0.05 \times 100$

\_\_\_\_\_ =  $178.9 \times 100$

3. Jennifer has 543 sweets in a jar. Katie has 5,430 sweets in a jar. Katie says, "I have 100 times as many sweets as you."  
Is Katie correct? Explain your answer.

4. Karis has 650 stickers.

Elijah has 10 times as many stickers as Karis.

Sophie had 10 times as many stickers as Elijah.

How many do they have altogether?





### Homework Focus: To divide whole numbers and decimals by 10, 100 and 1,000

1. Copy and complete

	÷10	÷100	÷1,000
67,000			
324,000			
5,675,000			
17,985			
3,456			
256			
135			
45			
3			

2. Hafsa and Sinead are dividing numbers by 100.

 Sinead  
 $37,800 \div 100 = 378$

 Hafsa  
 $37,800 \div 100 = 3,780$

Who is correct? Explain how you know.

3. Match the numbers to the correct operation to solve the calculation. One has been done for you.

131,800	÷ 10	1,318
18,310	÷ 1,000	138
138,000	÷ 100	83
331,800	÷ 1,000	1,831
83,000	÷ 100	3,318

## How to do it

### **Multiplying by 10, 100 and 1,000**

- Place the number you are multiplying in the place value column.
- If you are **multiplying by 10**, move the **numbers 1 place to the left**.
- If you are **multiplying by 100**, move the **numbers 2 places to the left**.
- If you are **multiplying by 1,000**, move the **numbers 3 places to the left**.

e.g.  $24 \times 10 = 240$ . Use a 0 to fill in the missing column as a place holder.

$$35 \times 100 = 3,500$$

$$467 \times 1,000 = 467,000.$$

**Tip:** You move the numbers to the left because they get bigger when you multiply.

### **Dividing by 10, 100 and 1,000**

- Place the number you are multiplying in the place value column.
- If you are **dividing by 10**, move the **numbers 1 place to the right**.
- If you are **dividing by 100**, move the **numbers 2 places to the right**.
- If you are **dividing by 1,000**, move the **numbers 3 places to the right**.

e.g.  $24 \div 10 = 2.4$ . don't forget your decimal point.

$$35 \div 100 = 0.35$$

$$467 \div 1,000 = 0.467$$

**Tip:** You move the numbers to the right because they get smaller when you divide.

