## Multiply by 0.1 and 0.01





Complete the calculations.

a) 
$$87 \times 0.1 = 87 \times \frac{1}{10} = 87 \div$$

**b)** 
$$8.07 \times 0.1 = 8.07 \times \frac{1}{10} = 8.07 \div$$

c) 
$$870 \times 0.1 = 870 \times \frac{1}{10} = 870 \div$$

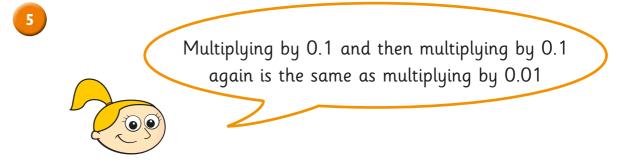
**d)** 
$$0.807 \times 0.1 = 0.807 \times \frac{1}{10} = 0.807 \div$$

Explain why multiplying by 0.1 is the same as multiplying by  $\frac{1}{10}$ 

Complete the calculations.

a) 
$$53 \times 0.01 = 53 \times \frac{1}{100} = 53 \div$$

4	Explain why multiplying by 0.01 is the same as dividing by 100				



Use examples to support your answer.

6 Match the equivalent calculations.

Compare answers with a partner.

Do you agree with Eva? \_\_\_\_\_

Work out the calculations.

Here are some multiplications.

$$3,080 \times 0.01$$

Write the products in descending order.

- - a)

I can think of a multiplication where the number stays the same.



What multiplication might Dora be thinking of?

b)

Sometimes multiplication makes a number greater and sometimes multiplication makes a number smaller.



Do you agree with Ron? \_\_\_\_\_

Use examples to explain your answer.

Discuss your answers to parts a) and b) with a partner.

Fill in the missing numbers.

f) 
$$\times 0.1 \times 100 = 0.06$$