MATHS · DECIMALS

YEAR 6

Dividing Decimals by 10, 100, 1000

Practise dividing by powers of ten and spotting the place-value pattern.

Name _____ **Date** _____

Remember When dividing by 10, 100 or 1,000, each digit shifts 1, 2 or 3 places to the right. The decimal point stays in place; use zeroes as placeholders when needed.

1 Complete the table

Look for the pattern across each row.

Starting number	÷ 10	÷ 100	÷ 1,000
6.4			
64			
640			

2 Calculate

Write each answer on the line.

38.6 ÷ 10 = _____

624.5 ÷ 100 = _____

9.3 ÷ 1,000 = _____

0.046 ÷ 10 = _____

0.72 ÷ 10 = _____

74.08 ÷ 100 = _____

5,080 ÷ 1,000 = _____

321.7 ÷ 1,000 = _____

3 Find the missing number

☐ ÷ 10 = 6.08

☐ ÷ 1,000 = 0.084

☐ ÷ 100 = 3.06

73.5 ÷ ☐ = 0.735

4.2 ÷ ☐ = 0.042

850 ÷ ☐ = 0.85

4 Use decimal division in context

A 36.8 m ribbon is cut into 100 equal pieces. What is the length of one piece, in metres?

Answer: _____ **m**

A £47.50 prize is shared equally among 10 winners. How much does each winner receive?

Answer: £ _____

A 6.4 litre jug of juice is poured equally into 10 bottles. How many litres go into each bottle?

Answer: _____ **litres**

Explain the pattern: What happens to each digit when a number is divided by 1,000? Use an example from this page.

_____

_____