YEAR 6 • DECIMALS

Multiplying Decimals by 10, 100, 1000

Explore how the digits shift through the place-value columns.

Name _____ Date _____

1 Calculate

Work out each product. Keep every digit in its correct place.

1. 4.8 × 10 = _____
2. 0.63 × 10 = _____
3. 7.25 × 100 = _____
4. 0.09 × 100 = _____
5. 3.006 × 1000 = _____
6. 0.407 × 1000 = _____

2 Find the missing number

Complete each equation.

0.42 × _____ = 42

6.3 × _____ = 6,300

_____ × 100 = 8.4

_____ × 1000 = 17

3 Follow the shift

Calculate each product, then record how many place-value columns the digits shift left.

Starting number	Multiply by	Product	Digits shift left by
0.36	10	_____	_____ places
5.204	100	_____	_____ places
0.078	1000	_____	_____ places

4 Explain and apply

EXPLAIN THE PATTERN

When you multiply a decimal by 10, 100 or 1000, what happens to the digits and the decimal point?

_____

_____

APPLY YOUR SKILLS

One piece of wire is 0.025 m long. What is the total length of 100 pieces? Show your multiplication.

_____

_____

STRETCH YOUR THINKING

Compare 0.84 × 100 and 0.084 × 1000. Are the products equal? Explain how you know.

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