

Multiplying and dividing decimals by 10, 100, 1000

WHAT THIS LESSON TEACHES

Multiplying by 10, 100, 1000 makes a number **bigger** — the digits move **left** 1, 2 or 3 places.
Dividing makes it **smaller** — digits move **right**.

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→ $2.5 \times 100 = 250$.

→ $47 \div 1000 = 0.047$.

MODEL THIS ON THE BOARD

WORK OUT 4.7×100 AND $38 \div 1000$

① $\times 100$ → digits move **2 places left**: $4.7 \rightarrow 470$.

② $\div 1000$ → digits move **3 places right**: $38 \rightarrow 0.038$.

ANSWER KEY

a) 2.5: 25, 250, 2500

Q2: 747.6

b) 0.7: 7, 70, 700

Q3: 761.73

c) 1.04: 10.4, 104, 1040

Q4: 1909.4

Q1: 2428

EXTENSION SHEET · STRETCH ANSWERS

S1: 19422

S3: 2387

S2: 952.2