



Multiplying & dividing decimals

Where does the point go?

- Today: place the decimal point correctly, every time.

0.6×0.4

- Multiply it in your head.

Turn & talk: 2.4, 0.24, or 0.024?

Multiply: ignore, then count

- Ignore the points and multiply the digits.
- Count the decimal places in BOTH factors; the product gets that many.

$0.6 \times 0.4 = 0.24$

- $6 \times 4 = 24$
- 1 place + 1 place = 2 places $\rightarrow 0.24$

Multiplying by less than 1 makes it SMALLER.

Divide: make the divisor whole

- $7.5 \div 0.25 \rightarrow$ shift BOTH points two places $\rightarrow 750 \div 25 = 30$
- Shifting both keeps the answer the same — it's the same ratio.

Move both points, or the answer breaks.

Your turn

- Compute $15.75 \div 2.5$.
- Thumbs up when you have it.

Two surprises, one idea

- $\times$ by less than 1 $\rightarrow$ smaller ($0.8 \times 0.9 = 0.72$)
- $\div$ by less than 1 $\rightarrow$ bigger ($7.5 \div 0.25 = 30$)

Ask what the operation MEANS before trusting a rule.

Now you

- → In-class practice sheet