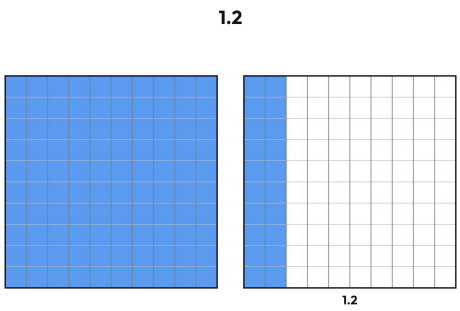
Name _____ Date _____

Multiplying a Decimal by a Whole Number

Example



$3 \times 0.4 = 0.4 + 0.4 + 0.4$: three lots of 4 tenths is 12 tenths, which is one whole and two tenths.

$$3 \times 0.4 = 1.2$$

1 ON YOUR OWN Write as an addition and work it out.

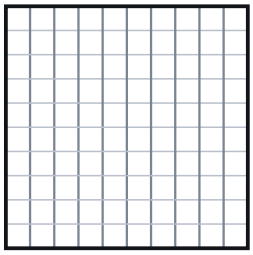
$4 \times 0.3 = \square + \square + \square + \square = \square$

$5 \times 0.2 = \square + \square + \square + \square + \square = \square$

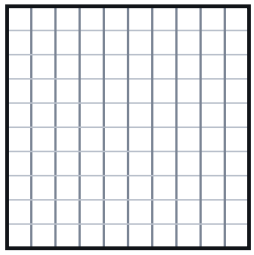
$3 \times 0.25 = \square + \square + \square = \square$

$6 \times 0.05 = \square + \square + \square + \square + \square + \square = \square$

2 ON YOUR OWN Colour on the grid and work it out.



$2 \times 0.35 = \square$



$4 \times 0.15 = \square$

Names (pair) _____ Date _____

Remember

Multiply as whole numbers, then place the point: $3 \times 0.4 = 3 \times 4$ tenths $= 12$ tenths $= 1.2$. The product has as many decimal places as the decimal factor ($5 \times 0.4 = 2.0 = 2$). Check the point with an estimate.

3 ON YOUR OWN First estimate, then work it out.

3×2.45 estimate: ☐ answer: ☐

4×1.8 estimate: ☐ answer: ☐

6×0.35 estimate: ☐ answer: ☐

4 IN PAIRS The product was worked out without the point. Where does the point go? Decide by estimating.

$7 \times 3.6 \rightarrow 252 \rightarrow$ ☐

$12 \times 0.45 \rightarrow 540 \rightarrow$ ☐

$4 \times 2.05 \rightarrow 820 \rightarrow$ ☐

5 ON YOUR OWN A notebook costs €1.35. How much do 6 notebooks cost? A lap of the field is 0.4 km. How many kilometres does Luke run in 9 laps?

The Decimal Grid app · otooly.com/decimal-grid

In **Show** mode type the product, e.g. 1.2, and check your drawing. In **Add** mode add the same number several times.

★ ON YOUR OWN **Exit card.** Work out 8×0.15. Estimate first.