

Ratio, proportion and percentage links

WHAT THIS LESSON TEACHES

A ratio like 1:3 means the two parts add to 4 so the first part is one quarter or 25%.

→ A ratio of 1:3 means one part in every four – one quarter and three quarters.

→ 2:3 out of 5 total gives $\frac{2}{5}$ and $\frac{3}{5}$.

→ $\frac{3}{5} = 0.6 = 60\%$.

MODEL THIS ON THE BOARD

TURN 2:3 INTO FRACTION AND PERCENT

- ① Add the parts: 2 plus 3 makes 5 total parts.
- ② The first part is 2 out of 5 so the fraction is $\frac{2}{5}$.
- ③ To find the percent multiply $\frac{2}{5}$ by 100 to get 40%.

ANSWER KEY

Scaffold: visual check on the page

Q1: $\frac{1}{10} = 10\%$

Q2: $\frac{1}{5} = 20\%$

Q3: $\frac{4}{5} = 80\%$

Q4: $\frac{2}{5} = 40\%$

Q5: $\frac{1}{2} = 50\%$

a) **Always** — By definition the parts make the total.

b) **Always** — One part out of four is always one quarter.

c) **Never** — Two fifths is always less than half.

d) **Always** — Divide the first number by the total and times 100.