

Expressing quantities in related place-value terms

WHAT THIS LESSON TEACHES

A fraction, a decimal and a percentage can all describe the exact same amount - they are three ways of writing one amount.

→ $\frac{3}{4}$, 0.75 and 75% all mean the same slice of the whole.

→ $\frac{1}{2}$ fills 50 parts of 100, so it is 50%.

MODEL THIS ON THE BOARD

WRITING $\frac{1}{2}$ THREE WAYS

- 1 Start with the fraction $\frac{1}{2}$.
- 2 Divide 1 by 2 to get the decimal 0.5.
- 3 Multiply 0.5 by 100 to get the percentage 50%.

ANSWER KEY

Scaffold: visual check on the page

Q1: 0.5, 50%

Q2: 0.25, 25%

Q3: $\frac{1}{5}$, 20%

Q4: 0.75, 75%

Q5: $\frac{3}{5}$, 0.6

a) Always — They are equivalent forms of the same quantity.

b) Always — Any percentage equals a fraction and decimal of the same value.

c) Never — 0.75 equals both $\frac{3}{4}$ and 75%.

d) Always — These are all equal representations.

EXTENSION SHEET · STRETCH ANSWERS

S1: 747.6

S2: 2387