

Fractions of a shape, a length and a set

WHAT THIS LESSON TEACHES

A fraction of a shape, length or set means splitting it into equal parts and naming one or more of those parts. One half is one of two equal parts, one quarter is one of four equal parts, and one third is one of three equal parts.

→ A chocolate bar broken into four equal squares shows one quarter as one square.

→ Twelve counters shared into four equal groups gives three counters as one quarter of the set.

MODEL THIS ON THE BOARD

ONE QUARTER OF TWELVE COUNTERS

- 1 Start with a set of **12** counters.
- 2 Share the counters into **4** equal groups.
- 3 Count the counters in one group to get **3**.
- 4 So one quarter of 12 is **3**.

DISCUSSION STARTER

REFLECT Is a half of a shape, a length or a set easiest for you to picture?

ANSWER KEY

Scaffold: visual check on the page

Q1: 3

Q2: 5

Q3: 2

Q4: 3

Q5: 3

a) **Always** — Two equal groups always give one half of the set.

b) **Always** — Four equal parts mean each shaded part is one quarter.

c) **Never** — One quarter is always shorter than one half of the same length.

d) **Always** — Three equal groups always make one third of the set.

EXTENSION SHEET · STRETCH ANSWERS

S1: 5/7

Investigation: One half, three ways — open-ended; scan pupils' working for valid solution paths rather than a single answer.