

Fractions of a length and of a set

WHAT THIS LESSON TEACHES

To find a fraction of a length or a set, split it into the number of equal parts named by the bottom number, then take the parts you need.

→ One half of a 12 cm strip is 6 cm, because two equal parts each measure 6 cm.

→ One third of 9 sliotars is 3, because three equal groups hold 3 each.

MODEL THIS ON THE BOARD

ONE QUARTER OF 12 SLIOTARS

- 1 The bottom number is **4**, so split the bar of **12** into **4** equal parts.
- 2 12 shared into 4 equal parts gives **3** in each part.
- 3 One quarter means take **1** of those parts, so one quarter of 12 is **3**.

12			
3	3	3	3

DISCUSSION STARTER

REFLECT Why must the parts be equal before a fraction of a whole or a set makes sense?

ANSWER KEY

Scaffold: visual check on the page

Q1: 5

Q2: 6 cm

Q3: 7 cm

a) Always — The bottom number 2 always means two equal parts.

b) Always — 10 shared into two equal groups gives 5 in each.

c) Always — Taking some of the equal parts leaves less than the whole.

d) Sometimes — It is whole only when the set shares evenly into four groups, like 12.

EXTENSION SHEET · STRETCH ANSWERS

S1: 14 parts ($7/8 = 14/16$)

S2: 12 parts ($4/5 = 12/15$)

S3: 10 parts ($5/7 = 10/14$)

S4: 12 parts ($3/4 = 12/16$)

S5: 4 parts ($1/4 = 4/16$)