

Lesson 36 **NUMBER****Finding a non-unit fraction of a quantity**

CURRICULUM ALIGNMENT

NUM.FRC.3b calculate the fraction of quantities and express in multiple ways.

INTERACTIVES **Fraction Strips** · challenge, display, explore

WHAT THIS LESSON TEACHES

A non-unit fraction has a number bigger than 1 on top, like three quarters or two thirds. To find it, share the whole into equal parts to find one part, then take as many parts as the top number says.

→ Three quarters of 20: one quarter is 5, so three quarters is three lots of 5, which is 15.

→ Two thirds of 12: one third is 4, so two thirds is $4 + 4$, which is 8.

MODEL THIS ON THE BOARD

THREE QUARTERS OF 20

- 1 Share 20 into 4 equal parts: $20 \div 4 = 5$.
- 2 One quarter of 20 is 5.
- 3 Three quarters means 3 of those parts: $5 + 5 + 5 = 15$.

20			
5	5	5	5

DISCUSSION STARTER

REFLECT Do you find one equal part first, then build up — and when does that feel easiest?

ANSWER KEY

Scaffold: visual check on the page

Q1: 9

Q2: 6

Q3: 6

Q4: 12

Q5: 10

Spot: He should take three groups of 5, not add $3 \times 3 = 15$. So three quarters of 20 is 15.

EXTENSION SHEET · STRETCH ANSWERS

S1: 6/7

S2: 55

S3: 21

S4: 112

S5: 72

Investigation: Fraction feast for the class — open-ended; scan pupils' working for valid solution paths rather than a single answer.