

Lesson 38 **NUMBER****Fraction of a quantity**

CURRICULUM ALIGNMENT

NUM.FRC.4b investigate proportionality and ratios of quantities (sets).

NUM.OPS.4 build upon, select and make use of a range of operation strategies.

INTERACTIVES **Word Problem · challenge**

WHAT THIS LESSON TEACHES

To find a fraction of a quantity, divide the whole amount by the bottom number to get the size of one equal part, then multiply by the top number to keep the parts you need.

→ $\frac{3}{4}$ of 60 = 45

→ $\frac{3}{8}$ of 64 = 24

MODEL THIS ON THE BOARD

FIND $\frac{3}{8}$ OF 64

- ① Split the whole into 8 equal parts: $64 \div 8 = 8$ in each part.
- ② Keep 3 of those parts: $8 \times 3 = 24$.

ANSWER KEY

Scaffold: visual check on the page

Q1: 9

Q2: 6

Q3: €4

Q4: 25

a) **Always** : The bottom number tells you how many equal parts to split the whole into.

b) **Always** : Divide by the denominator then multiply by the numerator every time.

c) **Never** : Multiplying first would give a number far too big and break the equal parts.

d) **Never** : A proper fraction of a quantity is always smaller than the whole amount.

EXTENSION SHEET · STRETCH ANSWERS

S1: 57

S2: 72

S3: 77

S4: 26

S5: 8