

Lesson 36 **NUMBER**

Finding a percentage of a quantity

CURRICULUM ALIGNMENT

NUM.FRC.4a

explore (model, compare and convert) the relationships between fractions, decimals and percentages.

MEA.MON.4

solve and pose practical tasks to investigate and make informed judgements about transactions and financial plans.

WHAT THIS LESSON TEACHES

To find a percentage of a quantity, divide by 100 to get 1%, then multiply by the percent needed. Use 10% as the master key by dividing by ten.

→ 10% of €80 is $€80 \div 10 = €8$.

→ 25% of €60 is a quarter of €60 = €15.

MODEL THIS ON THE BOARD

FINDING 20% OF €45

- 1 Divide €45 by 5 to find one fifth.
- 2 20% is the same as one fifth.
- 3 $45 \div 5$ gives the answer.

ANSWER KEY

Scaffold: visual check on the page

Q1: €8

Q2: €22

Q3: €15

Q4: €14

a) Always — Dividing by ten always gives one tenth which is 10%.

b) Always — 25% is one quarter so dividing by four works for any quantity.

c) Always — 10% plus 5% (half of 10%) always makes 15%.

d) Never — 1% requires dividing by one hundred, not ten.

EXTENSION SHEET · STRETCH ANSWERS

S1: €170

S2: 21

S3: €153

S4: 124

S5: 180