

End-of-module challenge: the fraction shop

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

The same amount can be written as a fraction, a decimal or a percent. Choosing the handiest form makes a shop calculation easier.

→ 50% is the same as $\frac{1}{2}$ or 0.5, so 50% off €4 means halve €4 to get €2.

→ $\frac{1}{4}$ off a €20 voucher is the same as taking away €5, so you pay €15.

MODEL THIS ON THE BOARD

50% OFF A €4 ITEM

- 1 The price tag says 50% off.
- 2 50% is just another way of writing $\frac{1}{2}$.
- 3 Half of €4 is **€2**.
- 4 The real price is therefore €2.

ANSWER KEY

a) €5

b) €6

c) €0.50

Q1: €6

Q2: €1

Q3: €1.50

Q4: €9

Q5: €8.50

a) Always : Both name exactly one half of a whole.

b) Always : 25 per hundred equals one quarter.

c) Always : One fifth equals two tenths or twenty per hundred.

d) Sometimes : It depends which form matches the numbers most neatly.

EXTENSION SHEET · STRETCH ANSWERS

S1: 124

S2: 32

S3: 210

S4: €480

S5: 8