

Lesson 51 MEASURES

Measures word problems (length, weight, capacity)

WHAT THIS LESSON TEACHES

Read the problem and find the signal word. 'Altogether' and 'joined' mean add; 'left', 'used' and 'poured out' mean subtract. Always change to the same unit before you work.

→ Ribbons 45 cm and 30 cm joined → $45 + 30 = 75$ cm.

→ 1 m and 25 cm: change 1 m to 100 cm first, then work in cm.

MODEL THIS ON THE BOARD

FLOUR LEFT IN THE BAG

① A bag holds **1 kg** of flour and **250 g** is used, so subtract to find what is left.

② Rename so the units match: **1 kg = 1000 g**.

③ Subtract: **1000 g – 250 g = 750 g**.

$$\begin{array}{r} 1000 \\ - 250 \\ \hline 750 \end{array}$$

DISCUSSION STARTER

REFLECT Which part of a measures word problem do you check first — the unit or the operation?

ANSWER KEY

a) 100 cm

b) 1000 ml

c) 700 g

Q1: 75 cm

Q2: 75 cm

Q3: 1500 ml

a) Always — 'Joined' is an add signal word.

b) Never — 'Poured out' means something is taken away, so you subtract.

c) Always — You can only combine measures that are in matching units.

d) Always — 'Left' always signals subtraction.

EXTENSION SHEET · STRETCH ANSWERS

S1: 29000 mm

S2: 22.4 cm

S3: 20 cm

S4: 17.7 cm

S5: 6 cm