

WORK OUT THREE MEASURES FOR THE CLASSROOM TANK

- 1 Find the perimeter of the base using length 50 cm and width 30 cm.
- 2 Find the area of the four sides using height 40 cm.
- 3 Convert the volume 60000 cm cubed to litres by dividing by 1000.

WARM-UP

Write each answer on its ruled line.

1. Convert the 3,000 cm³ box volume into litres
2. Find the metal length for a 30 cm by 20 cm tank base
3. Work out the volume of the 20 cm by 15 cm by 10 cm storage box

3,000 cm³ = _____

$2 \times (30 + 20) =$ _____

$20 \times 15 \times 10 =$ _____

PRACTICE

- 1 How many centimetres of metal tape are needed to make the frame around the base of the 50 cm by 30 cm fish tank? _____
- 2 How many square centimetres of glass are needed for the two long sides of the 50 cm by 40 cm fish tank? _____
- 3 What is the volume in cubic centimetres of the classroom fish tank that is 50 cm long, 30 cm wide and 40 cm tall? _____
- 4 The storage box holds 3000 cm cubed. How many litres is that when 1 litre equals 1000 cm cubed? _____

? ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

- | | |
|---|--|
| a. To find a tank's capacity in litres from its size in centimetres, you multiply and then divide. ☐ | c. A fish tank problem needs perimeter, area and volume all at once. ☐ |
| b. Working out how much card covers a box uses lengths and areas. ☐ | d. Finding the length of metal needed for a fish tank frame needs a mass measurement. ☐ |

REFLECT

When you estimate before measuring, are you usually close? What helps your estimate?