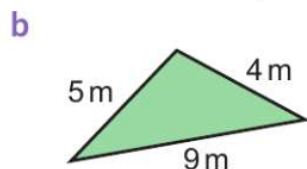
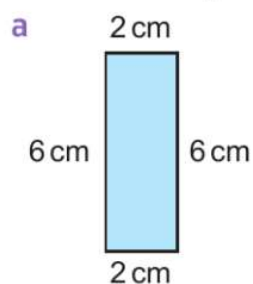


TITLE: 2d and 3d shapes

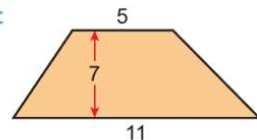
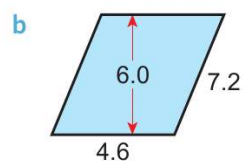
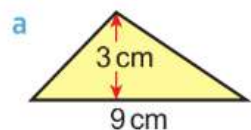
Tasks:

PART ONE 2

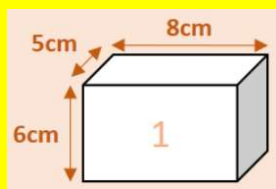
1) Work out the **perimeter** of each shape.



2) Find the area of these shapes

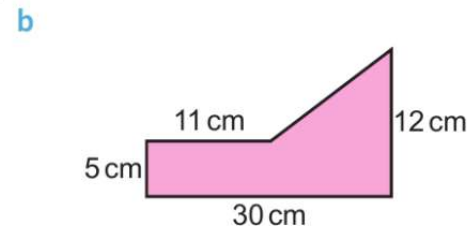
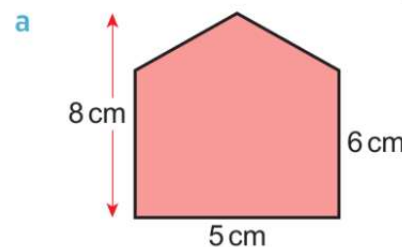


3) What is the volume of this cuboid



PART THREE – Problem solving

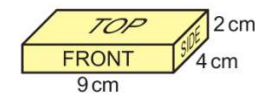
1) Work out the area of each shape.



2)

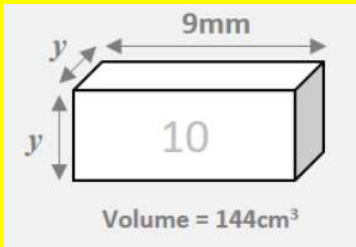
Reasoning

- a i** What is the area of the top of this cuboid?
- ii** Which other face of the cuboid is identical to this one?
- b i** What is the area of the front of this cuboid?
- ii** Which other face of the cuboid is identical to this one?
- c i** What is the area of the side of this cuboid?
- ii** Which other face of the cuboid is identical to this one?
- d** Copy and complete this calculation to work out the total surface area of the cuboid.
 $2 \times \square + 2 \times \square + 2 \times \square = \square \text{ cm}^2$



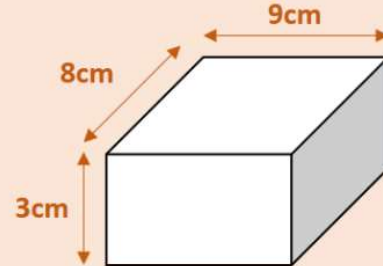
Stretch

1) Find y

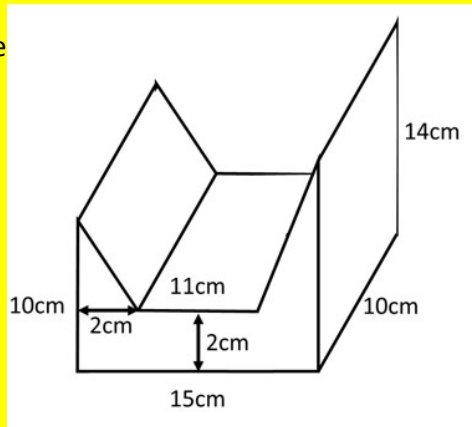


2)

The cuboid and the cube have the same volume. How long is each edge of the cube?

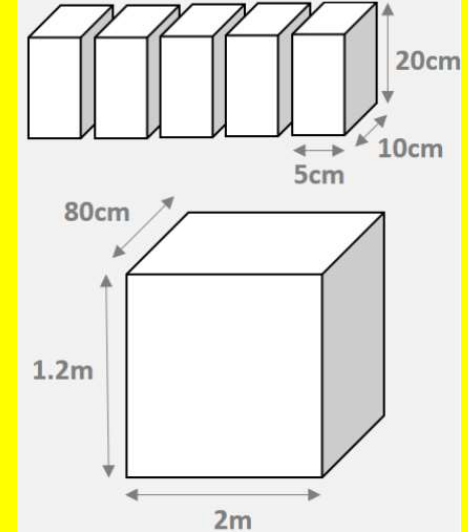


3) Find the volume of this prism.



Problem solving

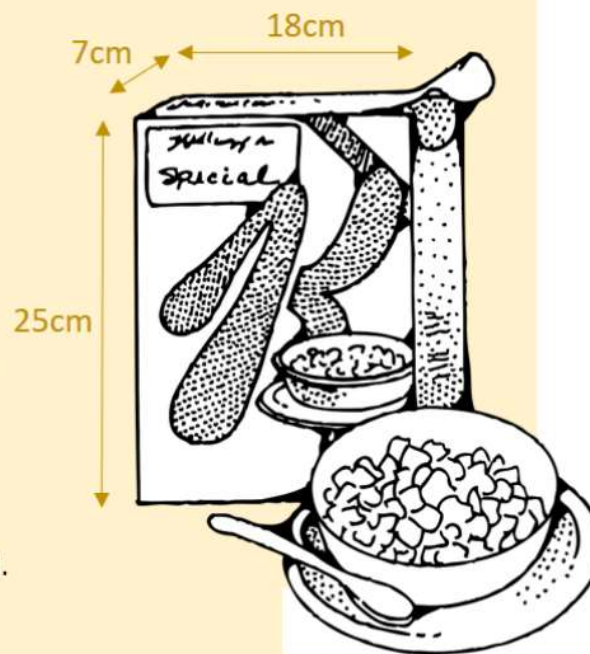
How many of the boxes can be packed into the crate?



Stretch

Problem Solving continued

A box of cereal is 25cm high, 18cm long and 7cm deep.
It holds 1.4kg of cereal.
A serving of cereal is 50g.
Find the volume of a bowl of cereal.



Resources:

You may want to draw various shapes in this task

Pencil

Pen

Calculator

Help desk:

Area of rectangle = height x width

Area of triangle = (height x width)/2

Area of Trapezium = (Top x bottom) x half the height

Area of a cuboid = Width x Height x length

Area of Prism = Area of face x length of shape