Genius SATS KS2 Maths

Videos For over 1500 Questions! Arithmetic Reasoning Past Papers One-A-Day Puzzle Time

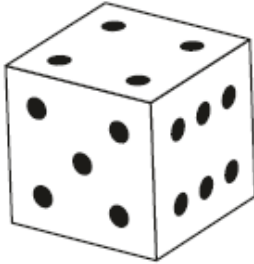Download on the App Store
ANDROID APP ON Google play
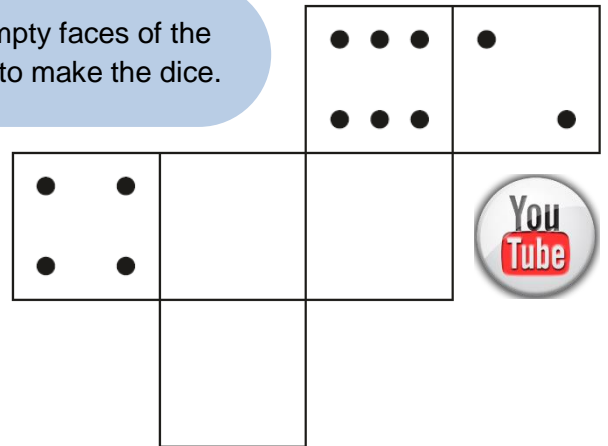
3D SHAPES NETS & VOLUME

Help Code : 035

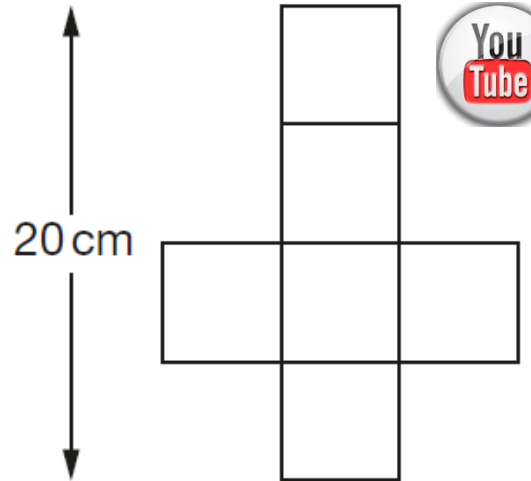**17** On a dice, the sum of the dots on opposite faces is always 7.

Draw dots on the three empty faces of the net so that it could fold up to make the dice.

22 This is the net of a cube.
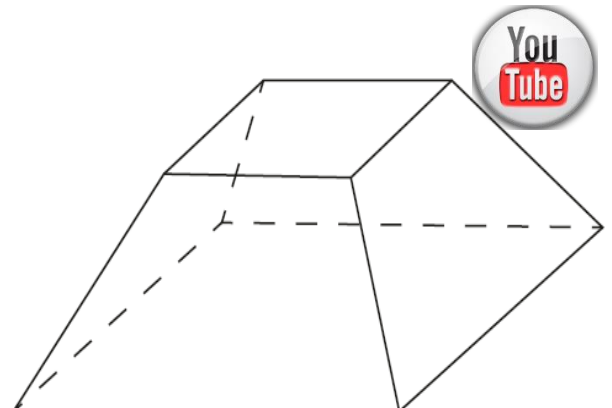
What is the **volume** of the cube?

20 cm

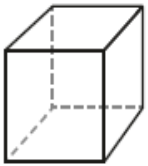[ ] cm

11 Here is a drawing of a 3D shape.

Complete the table.

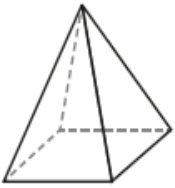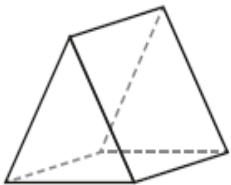| Number of Faces	Number of Vertices	Number of Edges

12

Here are diagrams of some 3-D shapes.

Tick each shape that has the same number of faces as vertices.
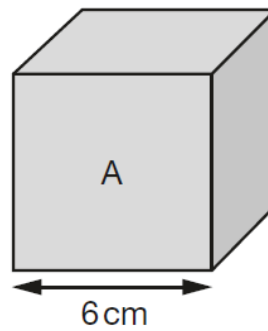
Cube ☐

Square-based pyramid ☐
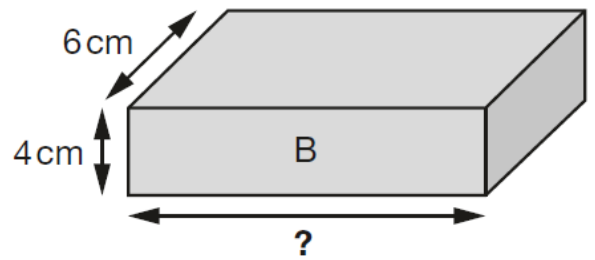
Triangular prism ☐

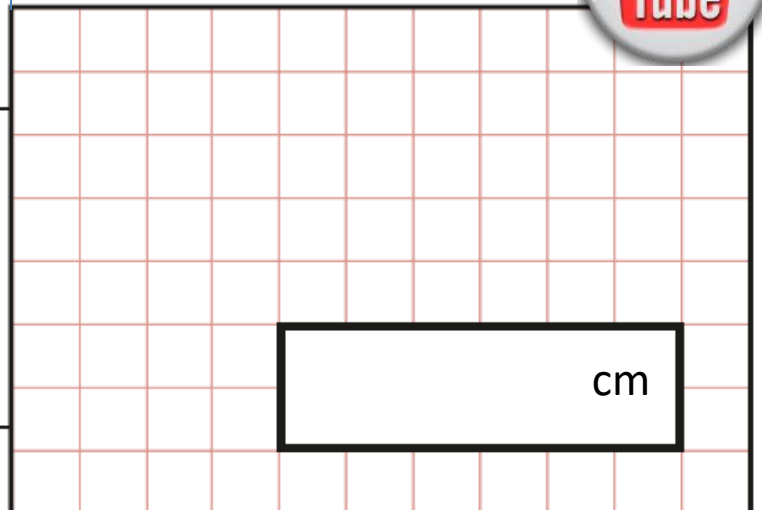Triangular-based pyramid ☐

24

Cube A and cuboid B have the same volume.
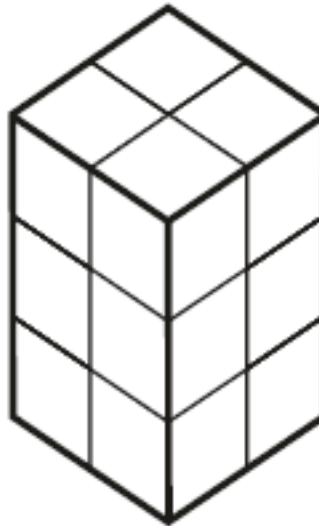
A

6 cm

Not to scale

6 cm

4 cm

B

?

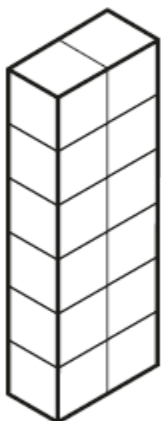Calculate the missing length on cuboid B.
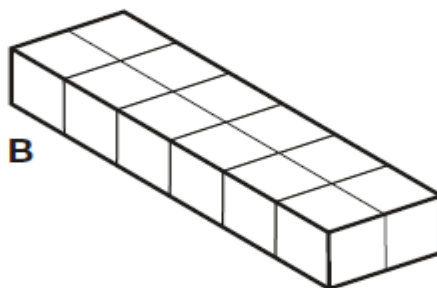
Show your method

cm

10 Emma makes a cuboid using 12 cubes.
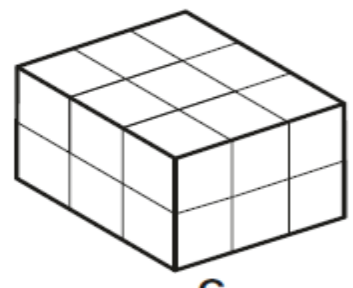

Write the letter of the cuboid that has a **different** volume from Emma's cuboid.

2013A KS2 Q5

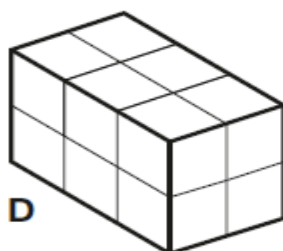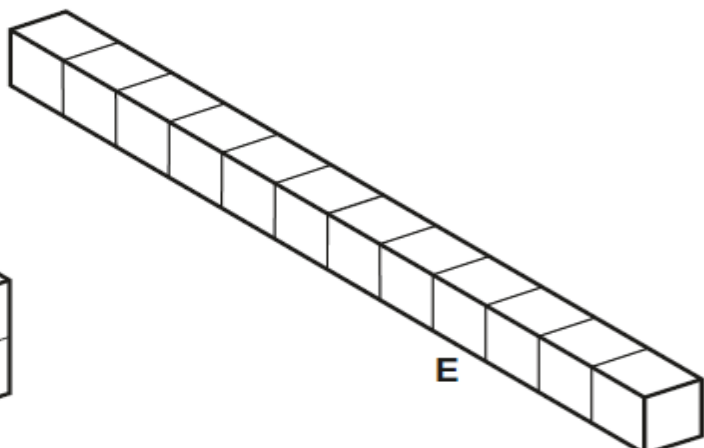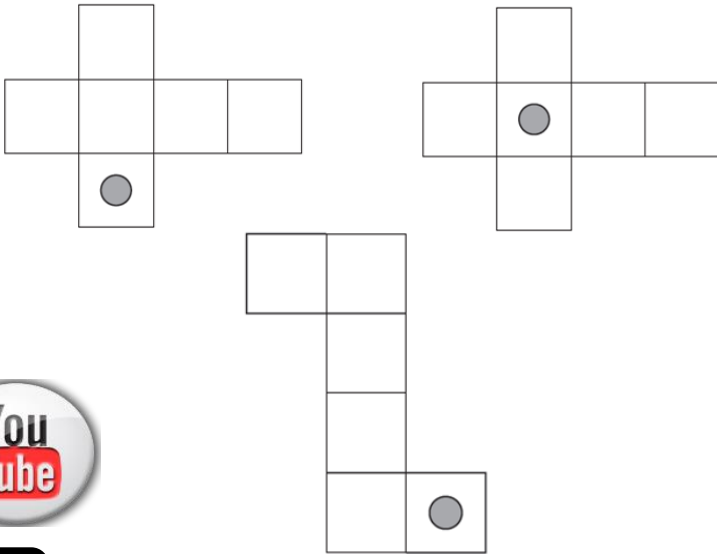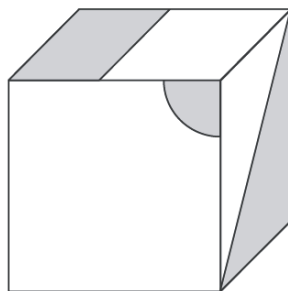Here are three nets of a cube.

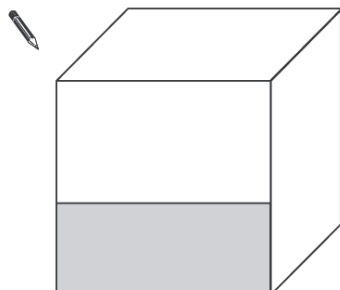On each net draw **one more dot** so that each cube will have dots on **opposite** faces.

This cube has shapes drawn on three of its faces.
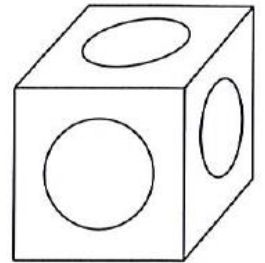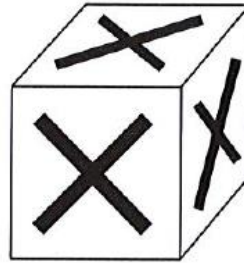
The cube is turned to look like this.

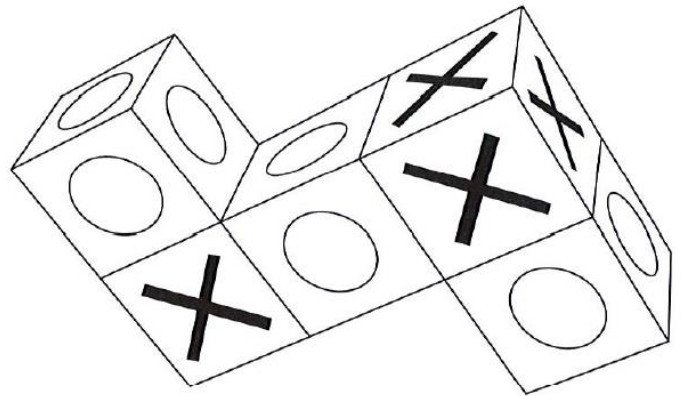Draw and shade the missing shapes.

2012A KS2 Q20

Seb has some cubes with a cross on each face and some cubes with a circle on each face.

He sticks five cubes together to make this shape.

How many crosses and how many circles are there on the **outside** of the shape?
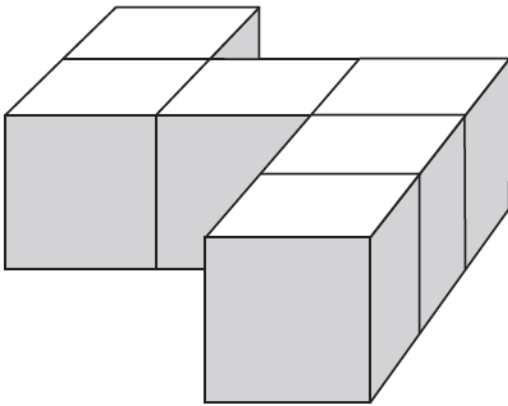
Number of crosses

Number of circles

Emily has 6 cubes.

She sticks them together to make this model.

She paints the sides of the model grey all the way round.

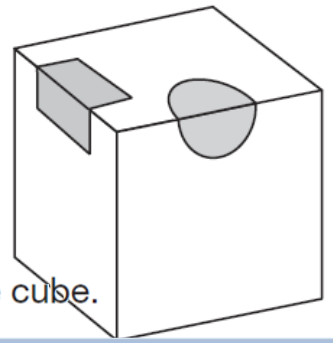She leaves the top and the bottom of the model white.

How many of the cubes in the model have **exactly two** faces painted grey?

Here are four diagrams.

On each one put a tick (✔) if it is a net of a cube.
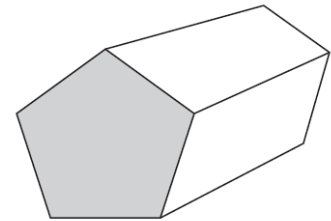Put a cross (✗) if it is not.

A cube has shaded shapes on three of its faces.

Here is a net of the cube.

Draw in the two missing shaded shapes.

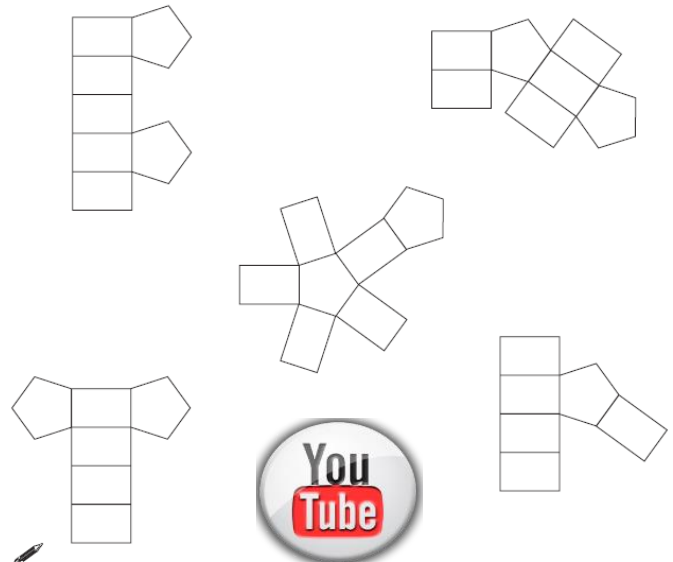This is a drawing of a pentagonal prism.

Tick (✔) the one shape that is a net for the pentagonal prism.