

Examination practice questions

You should have:

A ruler, protractor, compasses, a pen, pencil, eraser, calculator.
For some questions, you may need tracing paper.

Instructions

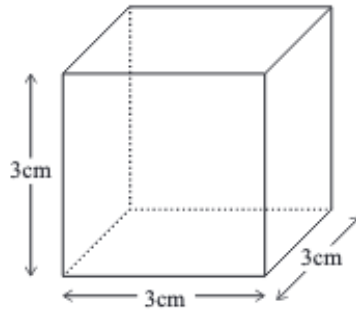
- Use **black** ink or ball-point pen.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- **Calculators may be used.**

Information

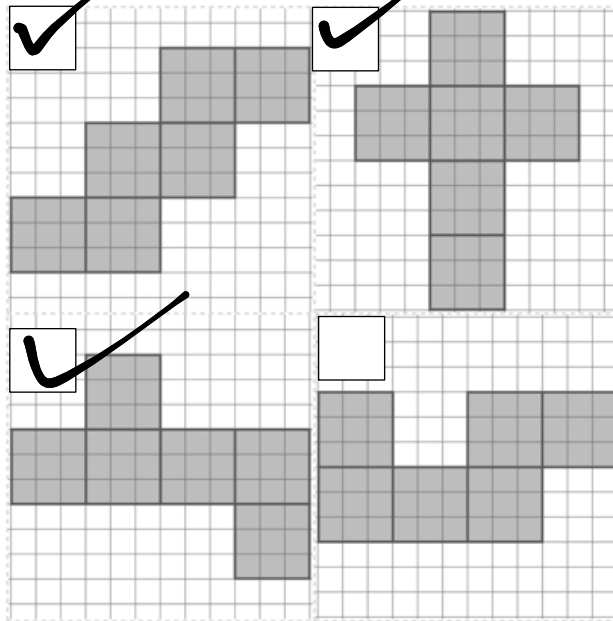
- The marks for each question are shown in brackets.
- If the number of marks for two similar questions isn't the same, this is likely due to them being modelled on different specifications. In this case, it is worth considering both mark schemes.
- Use the number of marks for each question as a guide as to how much time to spend on each question. As a rough guide, you can multiply the number of marks by 1.2 to see how many minutes you should spend on a question.
- Questions will generally get more challenging as the document progresses. Some of the latter questions will go beyond the core grade level for this topic.

Advice

- Read each question carefully before you start to answer it.
- Don't forget to have fun.
- Check your answers at the end.



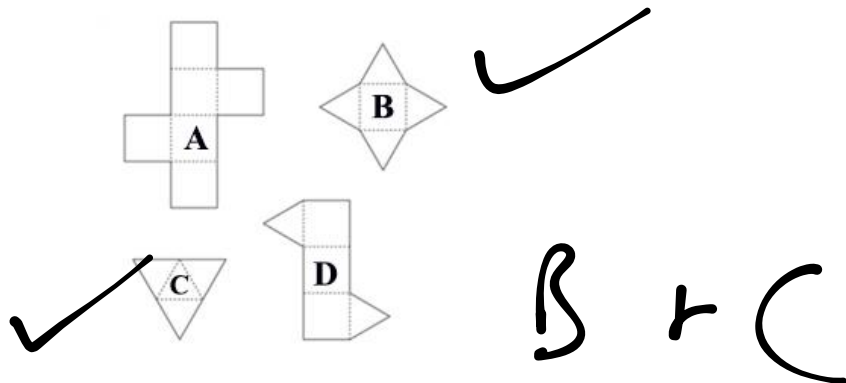
Which of the following, drawn on centimetre grids, is a net of the cube? Tick the correct answer.



(1 mark)

Here are some nets of shapes.

Tick the nets that fold to make a pyramid.



(1 mark)

The postcards are to be stored in boxes shaped like a cuboid, as shown in the diagram below.

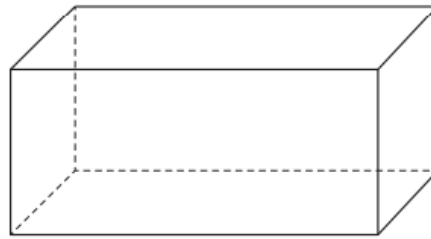
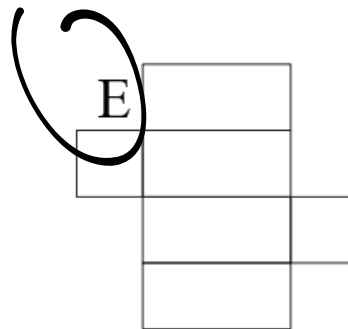
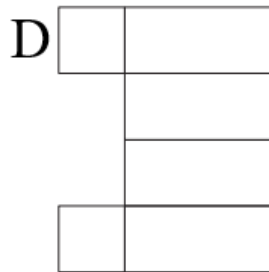
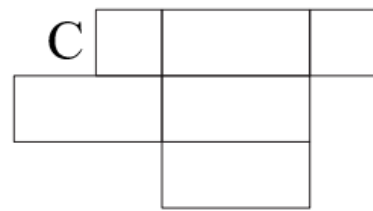
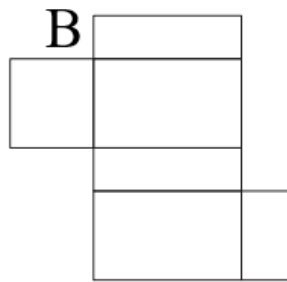
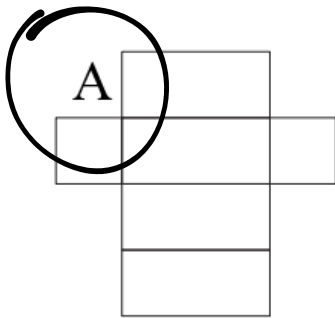


Diagram not drawn to scale

Which **two** of the following nets can be used to make the boxes?

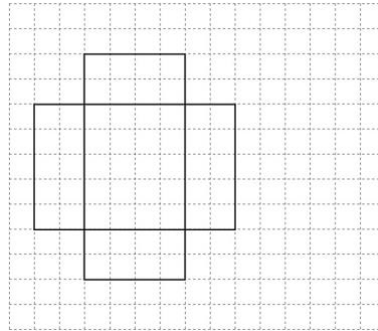


A + E

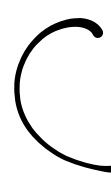
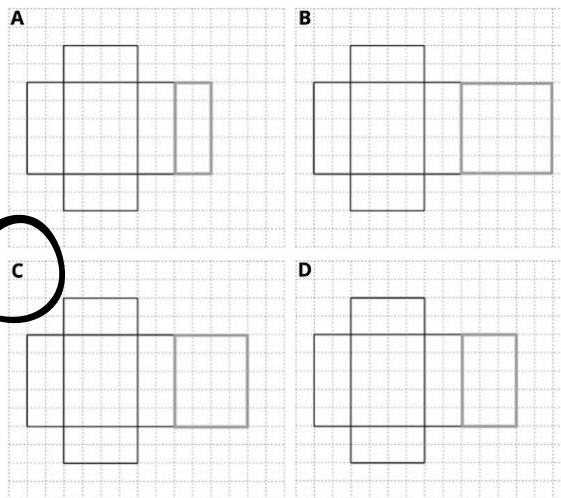
(2 marks)

Part of the net of a cuboid is drawn on centimetre squared paper.

One face is missing.

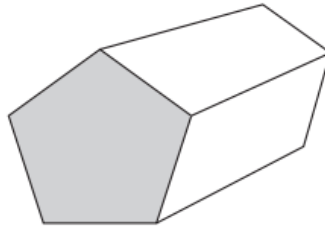


Which shape below has the correct missing face?

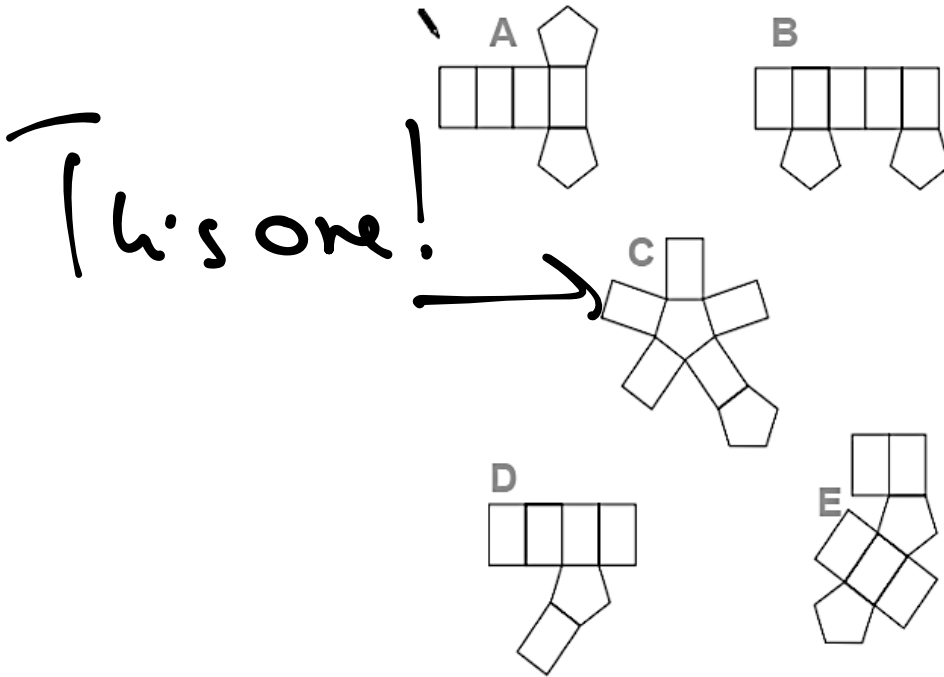


(1 mark)

This is a drawing of a pentagonal prism.



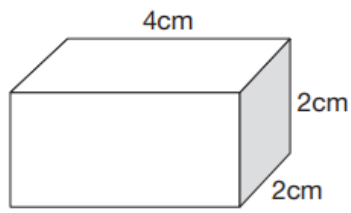
Write down the letter of the one shape that is a net for the pentagonal prism.



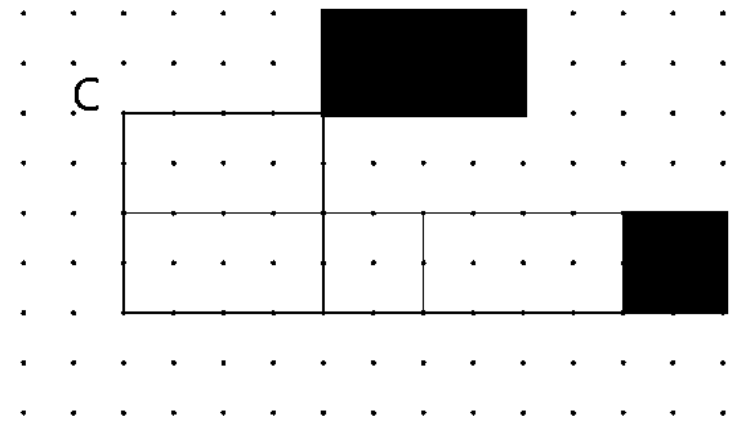
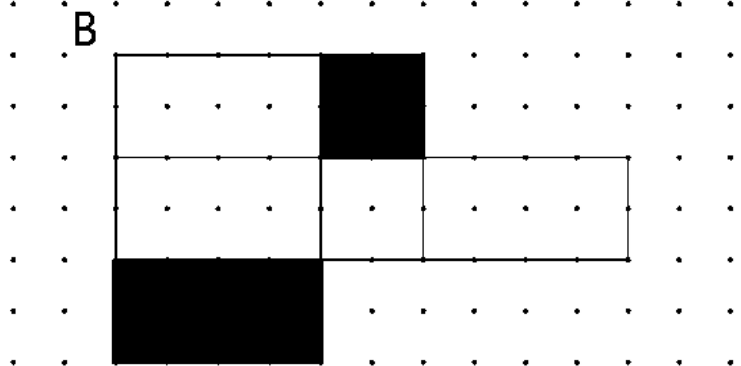
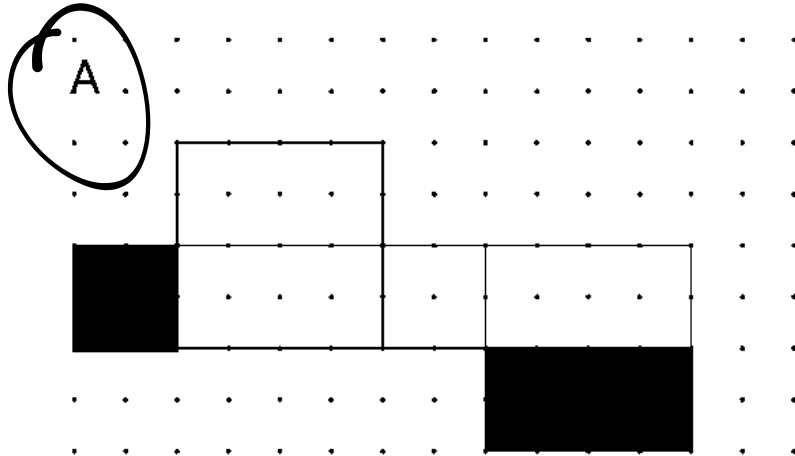
C

(1 mark)

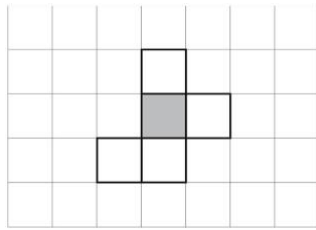
Look at cuboid below.



Which of the following would be a correct **complete** net of this shape?

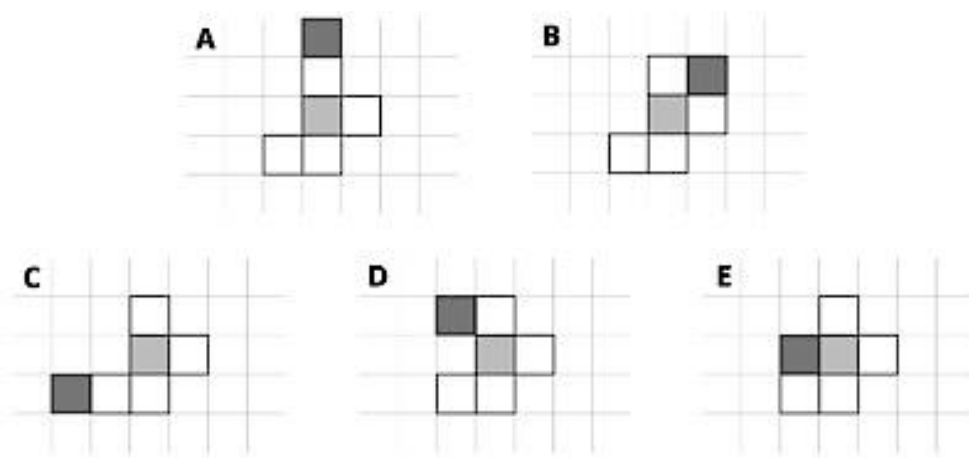


Here is the net of a cube with no top.



The shaded square shows the bottom of the cube.

Which of the following nets contain an extra square to make the net of a cube which does have a top?



A

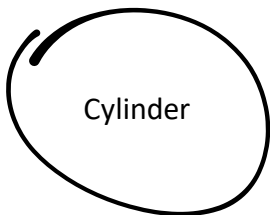
(1 mark)

The curved surface of a solid is made from this flat shape.



Circle the mathematical name of the solid.

Cuboid



Cylinder

Pyramid

Sphere

Cone

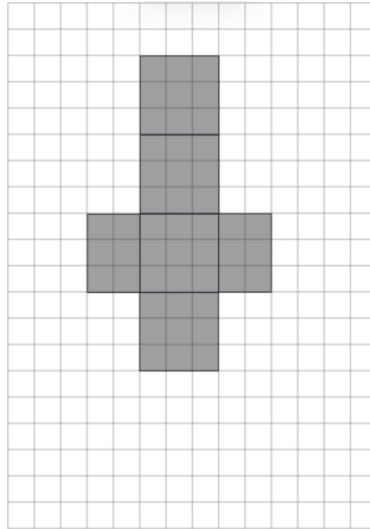
(1 mark)

Delyth runs her own business making and selling candles.

One of these candles fits in a box with a lid.

The box is a cube with sides of length 3cm.

Delyth has attempted to draw a net of the box, including the lid, on centimetre squared paper.



Which of the following is true about Delyth's attempt? Tick the correct answer.

She has forgotten to include the lid.

There are too many sides.

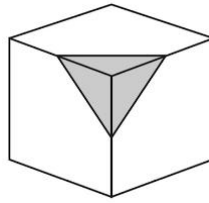
She has not drawn a net.

Two of the sides are too small.

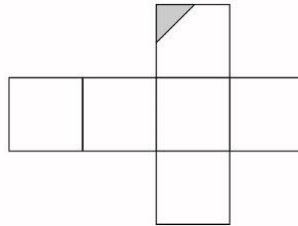
The net is correct.

(1 mark)

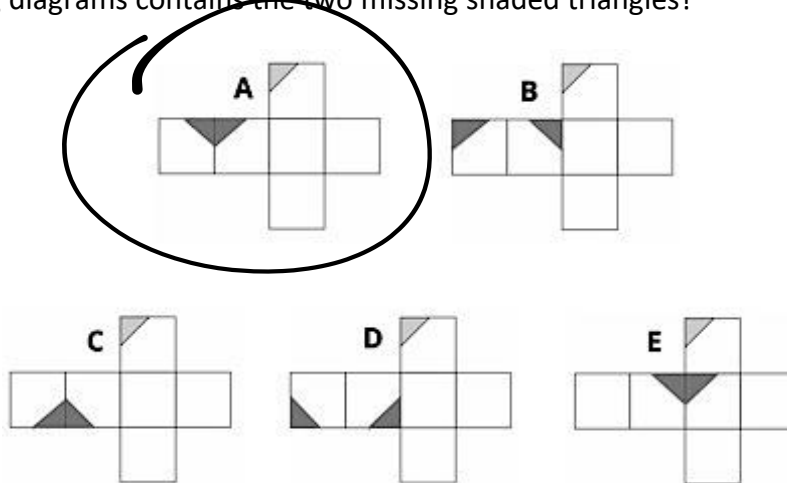
A cube has shaded triangles on three of its faces.



Here is the net of the cube. It is missing two shaded triangles.



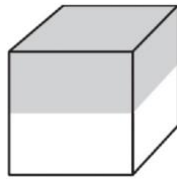
Which of the following diagrams contains the two missing shaded triangles?



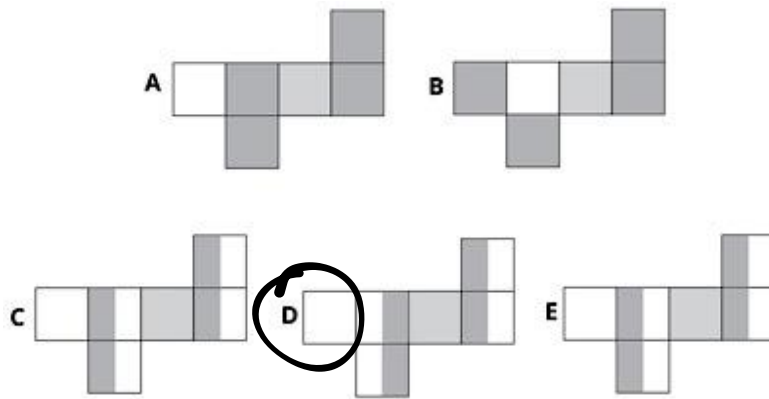
A

(1 mark)

A cube is shaded all the way round so that the top half is grey and the bottom half is white.



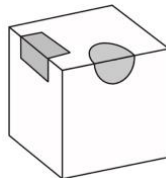
Which of the following nets is the correct net for this cube?



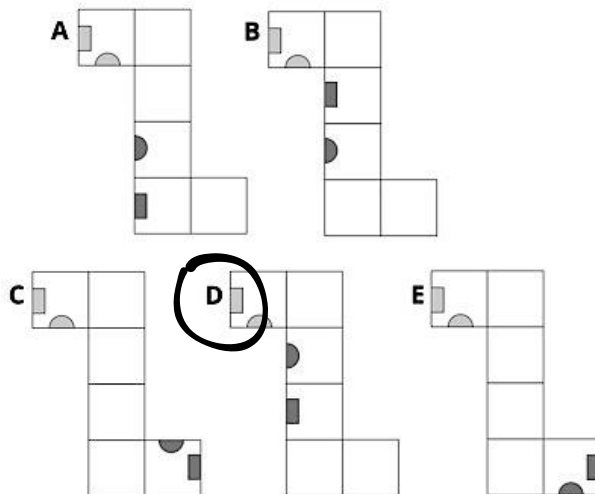
D

(1 mark)

A cube has shaded shapes on three of its faces.



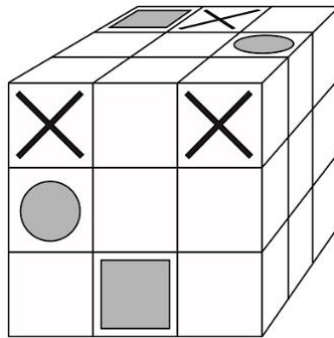
Which of the following nets is the correct net for this cube?



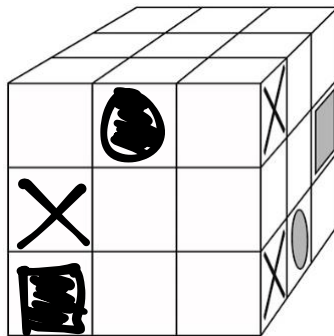
D

(1 mark)

Cubes have been stuck together to make this block.
The block has a pattern on two faces.



The block is turned to the position below.
Draw the missing parts of the pattern on it.



*M,
for any
correct*

*All
correct.*

Here are two spare diagrams that you may use for any working out:

