

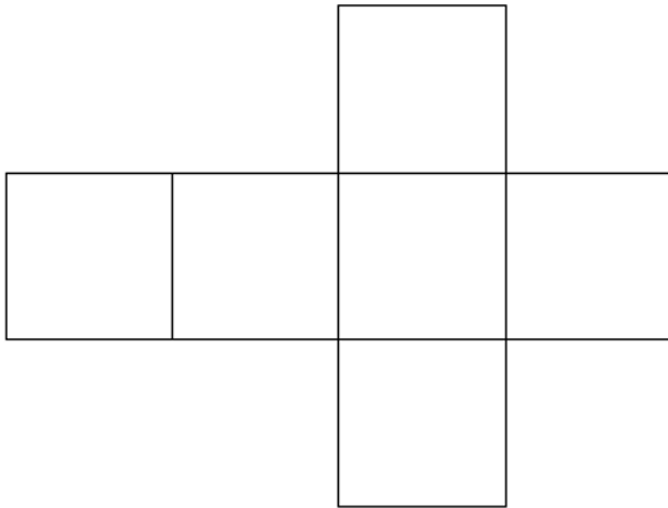
Non-calculator Questions

NCFE

1.

Denise needs to buy some boxes for the candles.

This is the net of the box she chose:



The net is made up of six squares.

What shape will the box be?

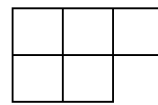
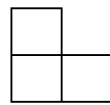
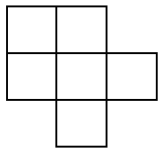
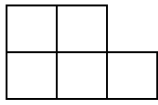
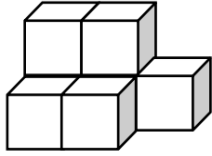
[1 mark]

Your answer:

City & Guilds

2.

Which is a **plan view** of the object shown?



(tick one)

A

B

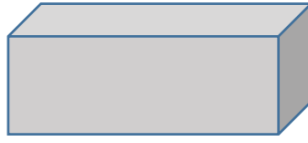
C

D

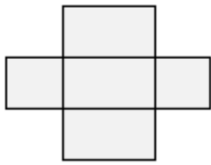
(1 mark)

Level 1 Plans, Elevations and Nets Exam Questions

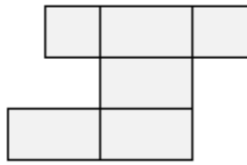
3.



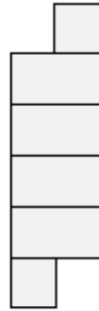
Which one of these nets will fold into this shape?



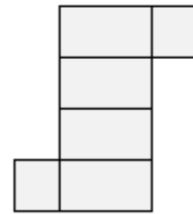
A



B



C



D

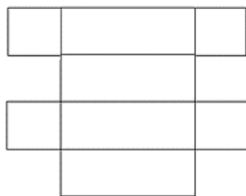


(1 mark)

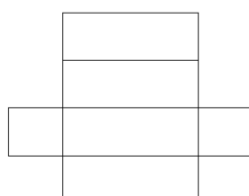
4.

Which one of these nets will fold to make a cube?

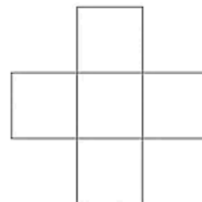
A



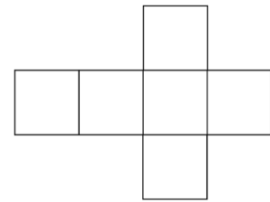
B



C



D



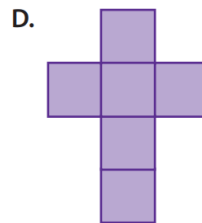
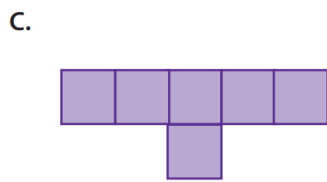
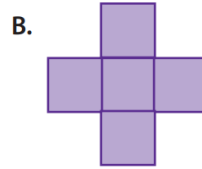
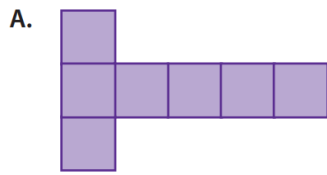
(tick one box)

(1 mark)

Highfield

5.

Which of these nets can be folded to form a cube?



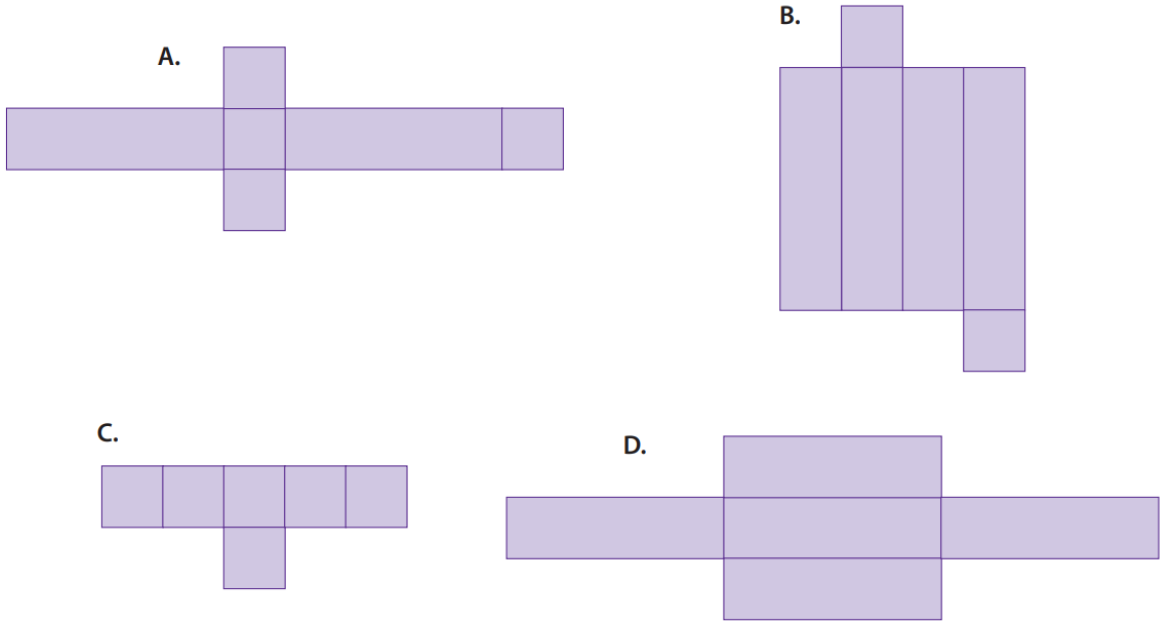
Write the answer in the box below.

(1 mark)

Answer: _____

6.

Which of these nets can be folded to form a cuboid?



Write the answer in the box below.

(1 mark)

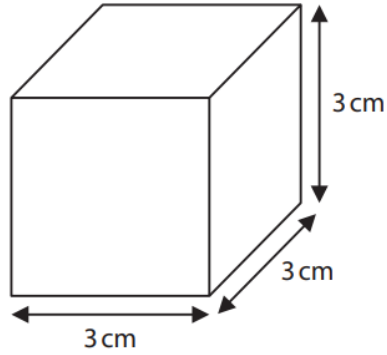
Answer: _____

Calculator Questions

Edexcel

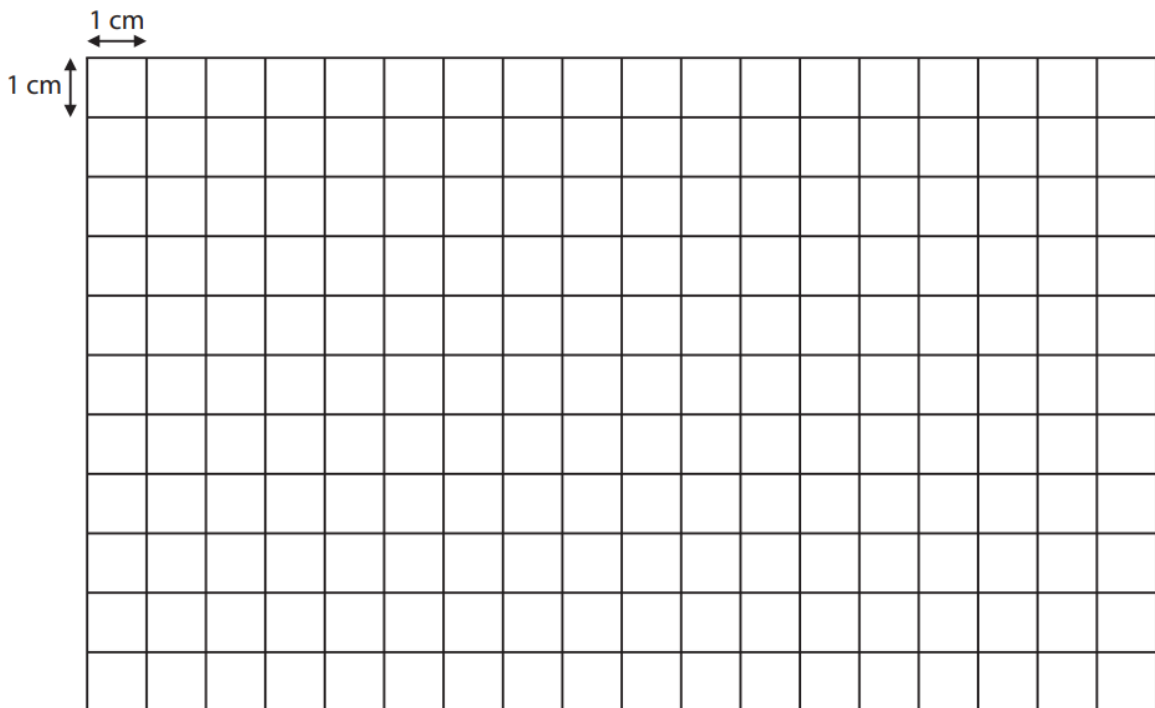
1.

Here is a cube of side length 3 cm.



Draw a net of the cube.
Use the grid below to draw your net.

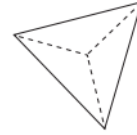
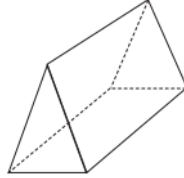
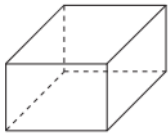
(3)



Level 1 Plans, Elevations and Nets Exam Questions

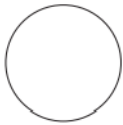
2.

Josh is designing gift boxes.
He designs these boxes.



Josh needs to know the shape of the boxes from different views.

shape 1



shape 2



shape 3



shape 4



Place the correct numbers in the space to complete the sentences.

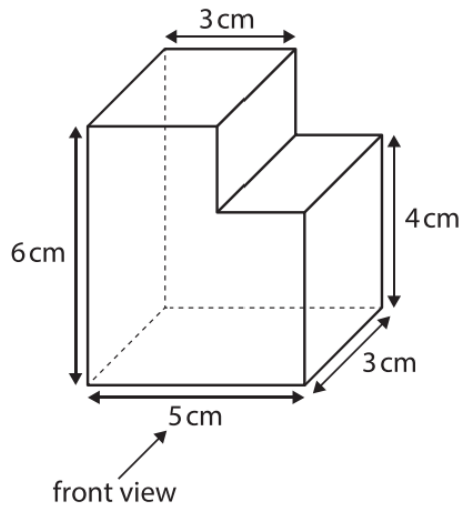
(a) Shape is the plan view of the cylinder. (1)

(b) Shape is the front view of the triangular prism. (1)

(c) The triangular based pyramid has faces, edges and
..... vertices. (1)

3.

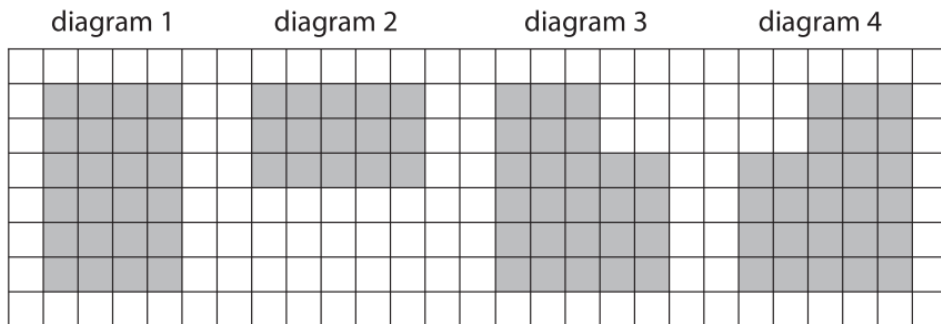
Here is a prism.
All corners on the prism are right angles.



(a) How many faces are there on the prism?

(1)

The centimetre grid below shows four different views of the prism.



(b) Which diagram shows the plan view?

(1)

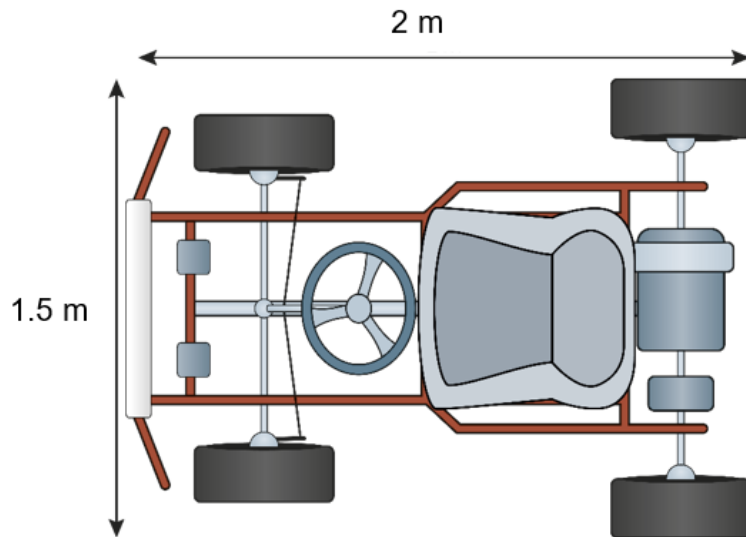
(c) Which diagram shows the back view?

(1)

NCFE

4.

The safety instructions show a plan view of the go-kart.



Hamid says that the go-kart is 1.5 m high, 2 m long and 0.6 m wide.

Is Hamid correct?

Explain your answer.

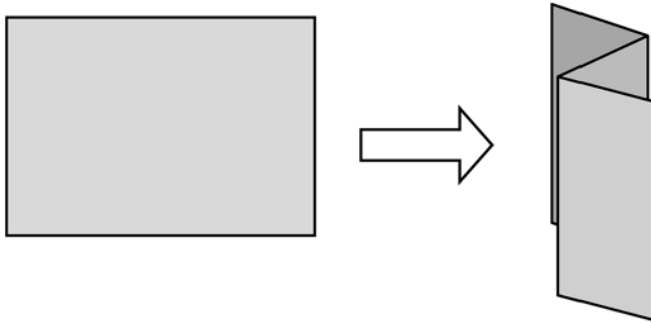
[1 mark]

5.a)

Joy works in student services at a college.
She is responsible for publicity.

Joy produces a leaflet explaining what services are available.

The leaflet is made by folding a piece of A4 card to make 6 pages.



A4 card measures 29.7 cm by 21.0 cm

What are the dimensions of **one** of the pages of the leaflet?

[2 marks]

Your answer:	

b)

What is the **total** area, in cm^2 , of the 6 pages?

[3 marks]



Your answer:

cm^2

6.

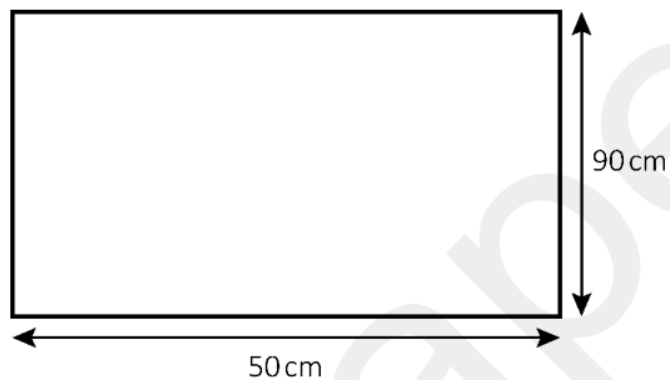
Joy is re-organising her office.

She draws a plan view of the office and the furniture to help her.

Joy has a cuboid filing cabinet that is:

- 40 cm wide
- 50 cm long
- 90 cm high.

This is the plan view of the filing cabinet that Joy draws:



Is the drawing correct? Explain your answer.

[1 mark]

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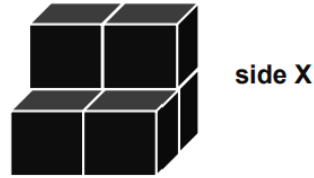
Your answer:

--

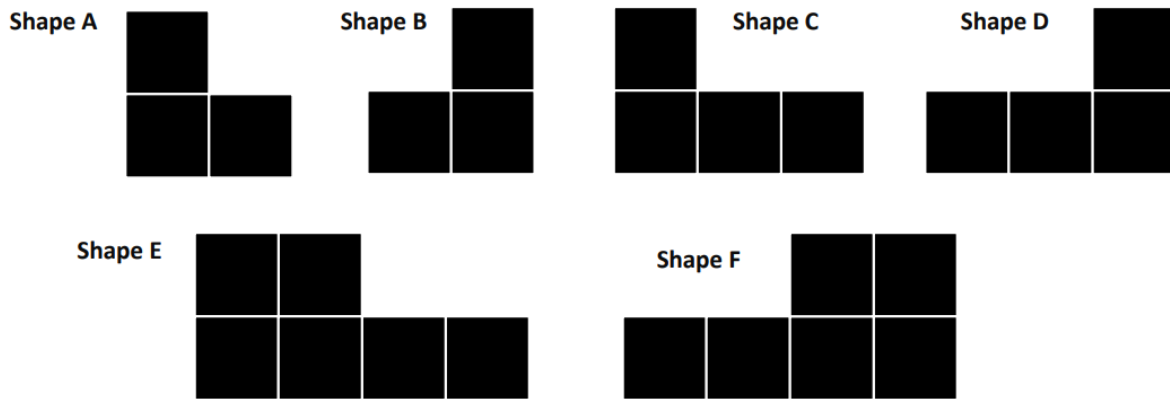
City & Guilds

7.

A shelf stacker is making a display in a shop. It is made from six identical boxes. Each box is a cube.



Which one of the shapes below is a side view (elevation) of the display from **side X** ?



The side view (elevation) from side X is **Shape** _____

Each box has sides measuring **0.5m**

Work out the area of this side of the display. **Give units in your answer.**

Show all your working.

Area _____

Each box weighs 950g

What is the weight of the whole display in **kilograms**?

Show all your working.

_____ kg

(4 marks)

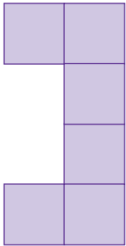
Highfield

8.

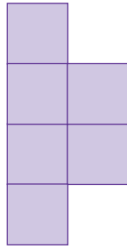
Which of these shows the net of a cube?

Circle the correct letter.

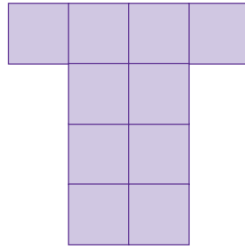
(1 mark)



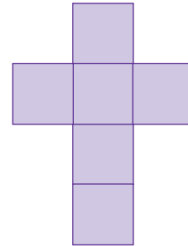
A



B



C



D

Open Awards

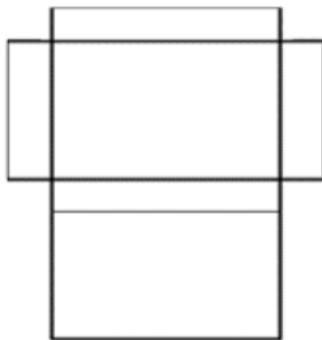
9.

Davinder makes jewellery that she sells to local markets. She wants to buy some small boxes with lids, like the picture below, to put necklaces in.

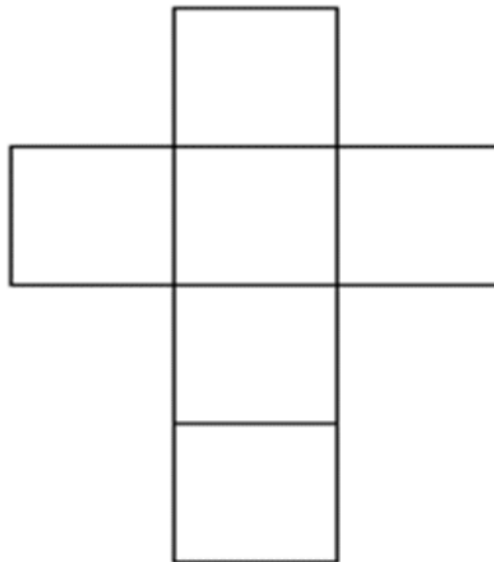


She receives a selection of boxes to choose from. The net diagram of each box is shown below.

Net A
(7cm x 5cm x 1.5cm)



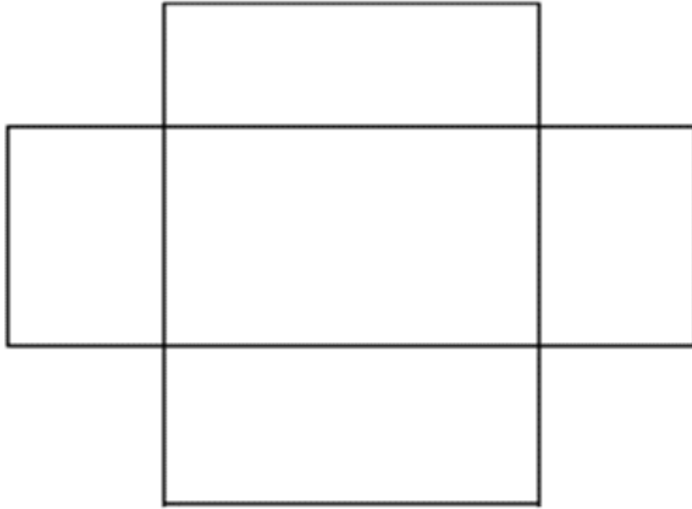
Net B
(4cm x 4cm x 4cm)



Net C
(7cm x 5cm x 3cm)



Net D
(10cm x 8cm x 3cm)



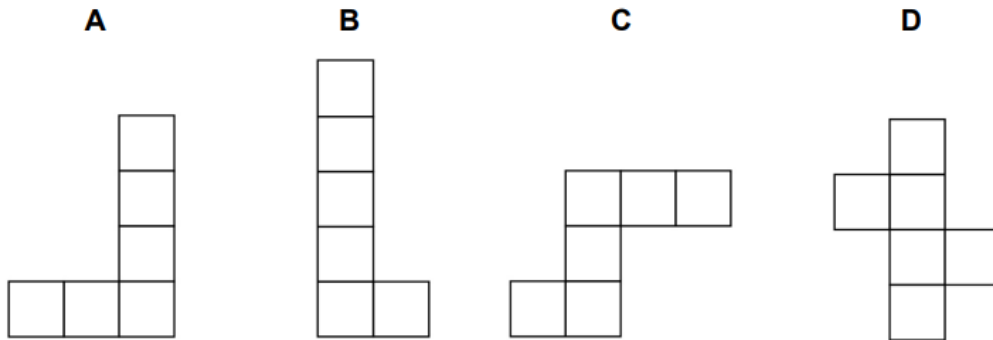
Which net diagram best represents the box shown in the picture? Explain the reason for your choice of net in the box below. (2 marks)

AQA

10.

Which of the following is a net of a cube?
Circle the correct letter.

[1 mark]



11.

A triangular prism has width 4 cm, height 6 cm and length 8 cm

Sketch a net of the prism.

Label the given dimensions on your net.

[2 marks]

