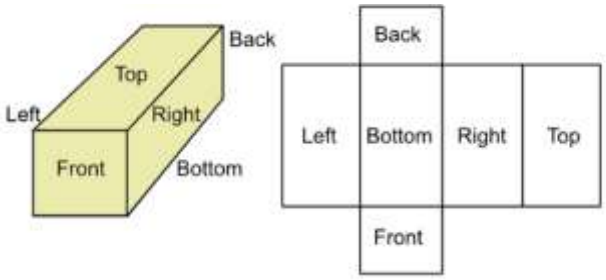
Worksheet P2 **Ne t of 3D Shapes** **IGCSE Mathematics 0580**



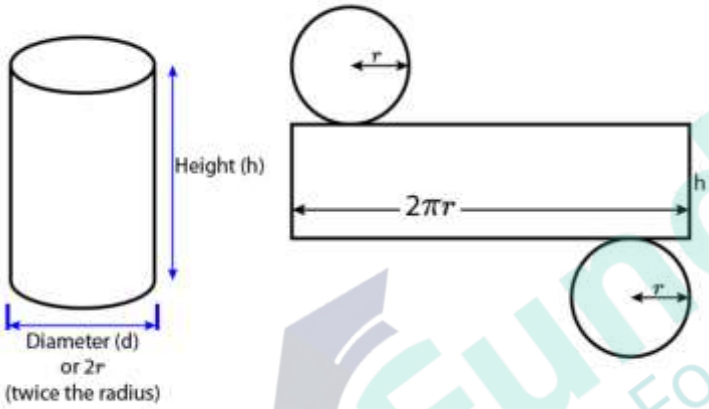
Net of cuboid



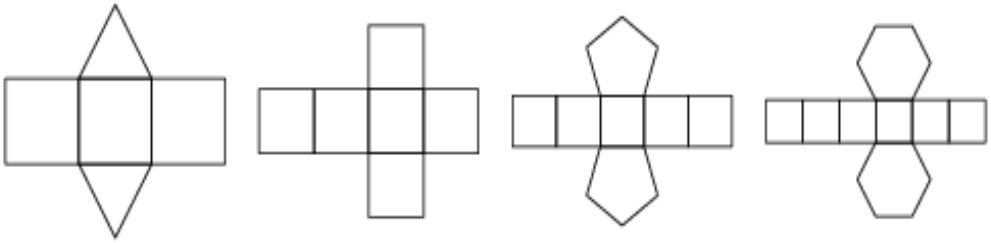
Net of Cube



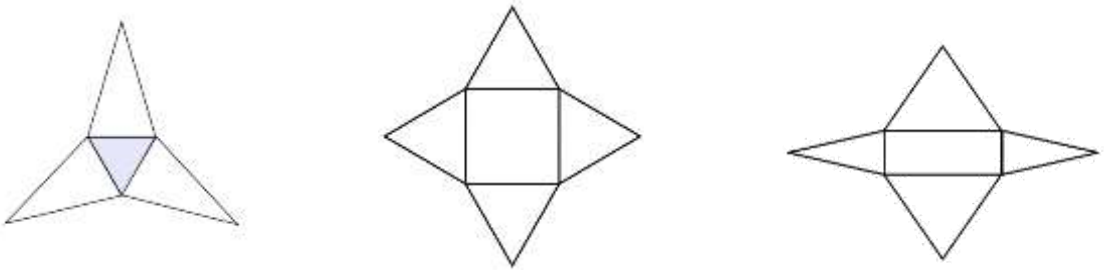
Net of Cylinder



Net of Prism



Net of Pyramid



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1. The diagram shows the net of a solid



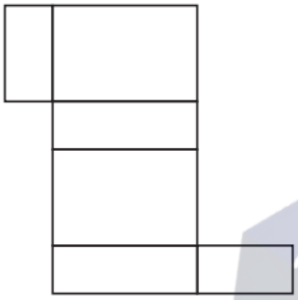
(a) What is the special mathematical name of the solid? [1]

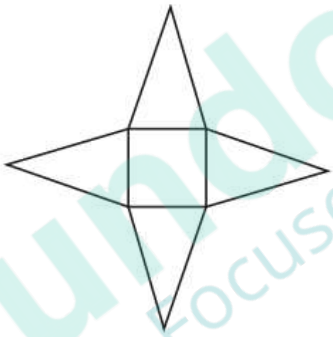
(b) For this solid, write down the number of vertices. [1]

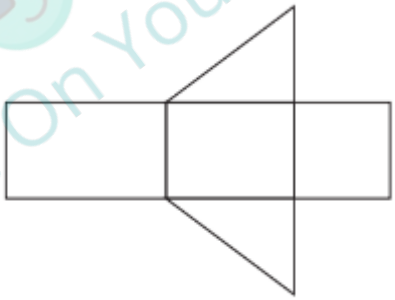
4024/11/O/N/19 Q3)

2. Write down the name of the solid formed from each net. [3]

(a) (b) (c)

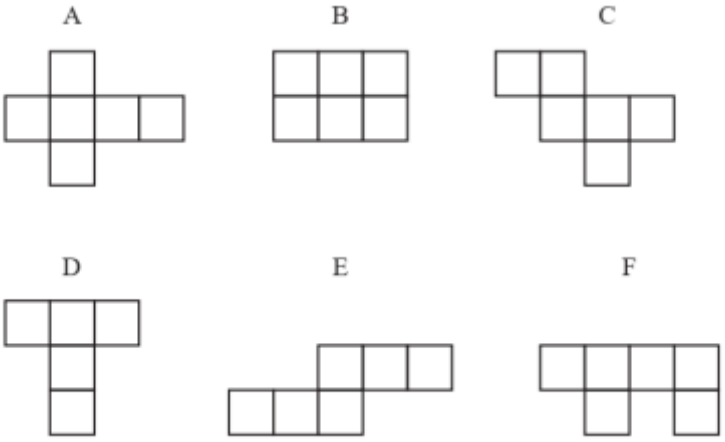






4024/12/O/N/21 Q4)

3. Write the letter of each drawing that is the net of a cube. [2]

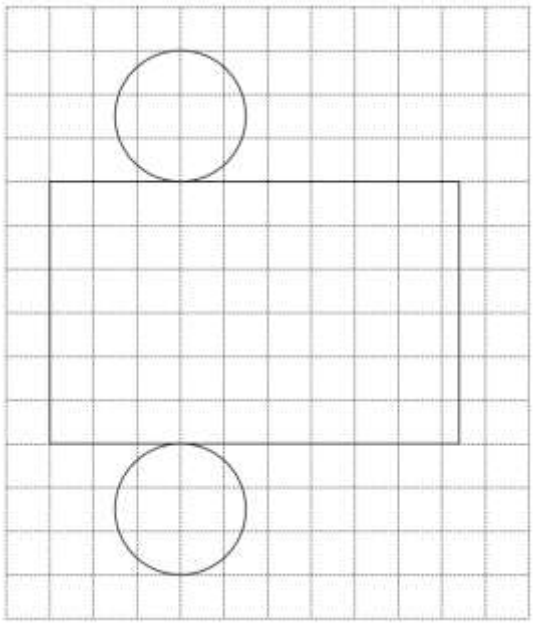


4024/11/O/N/20 Q12)

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4. The diagram shows the net of a solid drawn on a 1cm grid



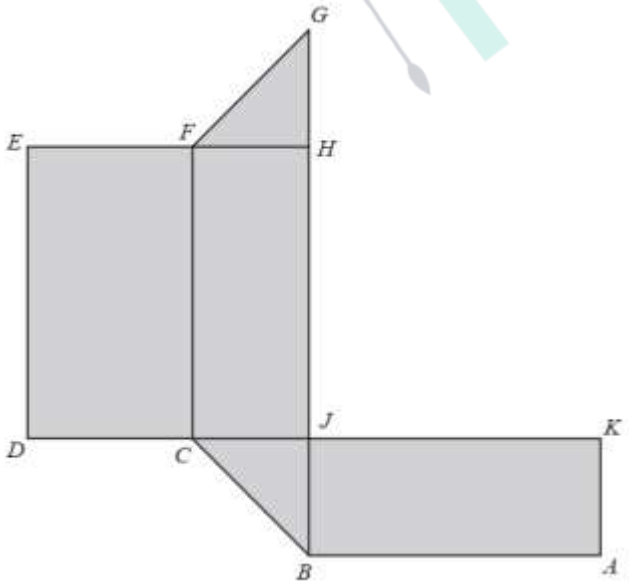
Name the solid formed by this net and describe fully the dimensions of this solid.

Name of solid .....

Dimensions ..... [3]

4024/11/M/J/22 Q5)

5. This net is folded to make a triangular prism.



(a) Which vertices join with A ? [1]

(b) Which edge joins with DE ? [1]

(c) $FH = 2$ cm, $GH = 2$ cm and $JH = 5$ cm.

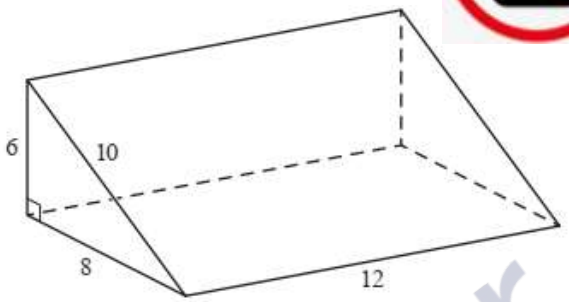
Find the volume of the triangular prism. [2]

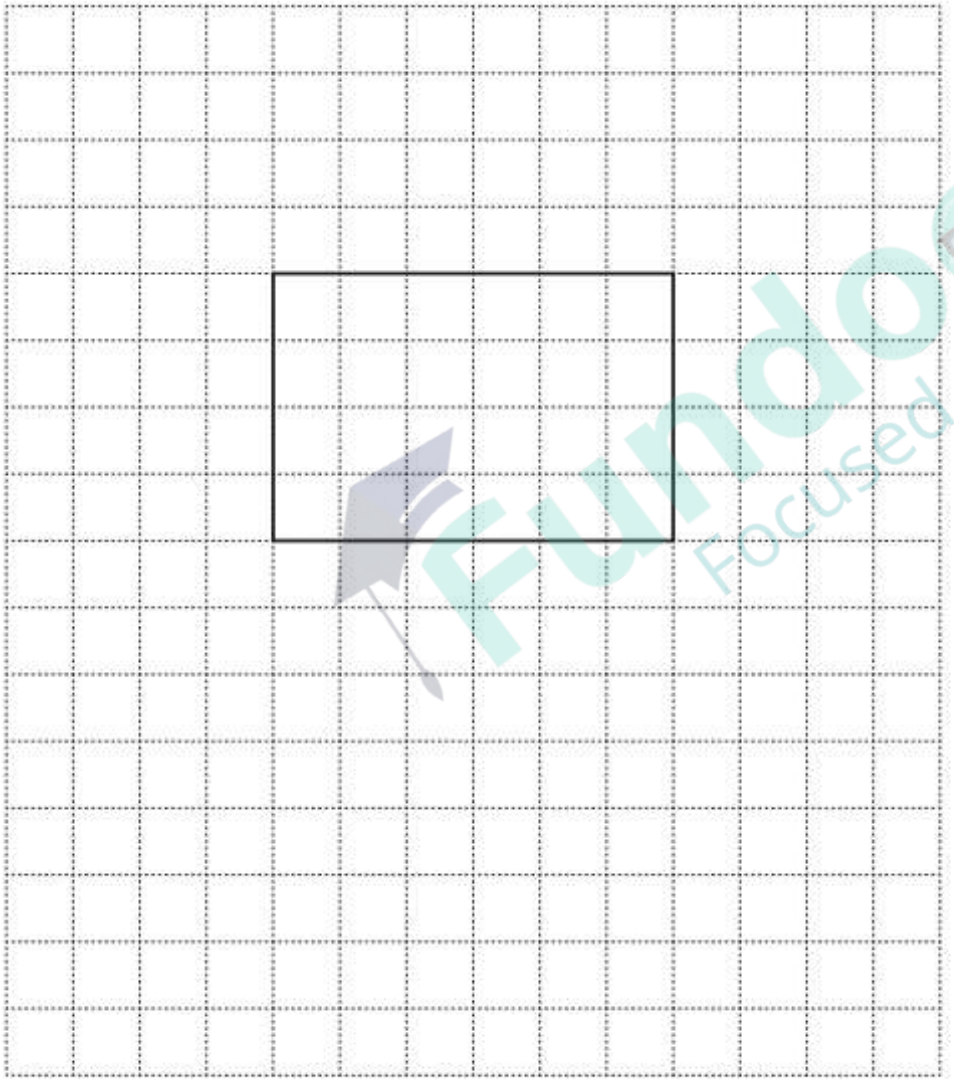
4024/12/O/N/20 Q14)

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6. The diagram shows a triangular prism of length 12cm.
The cross section is a right-angled triangle with sides 6cm, 8cm and 10cm.
On the grid, draw a net of this prism.
Use a scale of 1 cm to represent 2cm.
One face has been drawn for you.





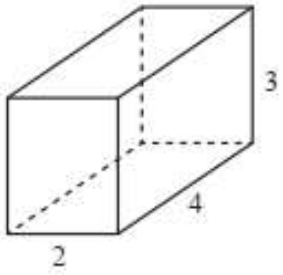
[2]

4024/11/M/J/19 Q8

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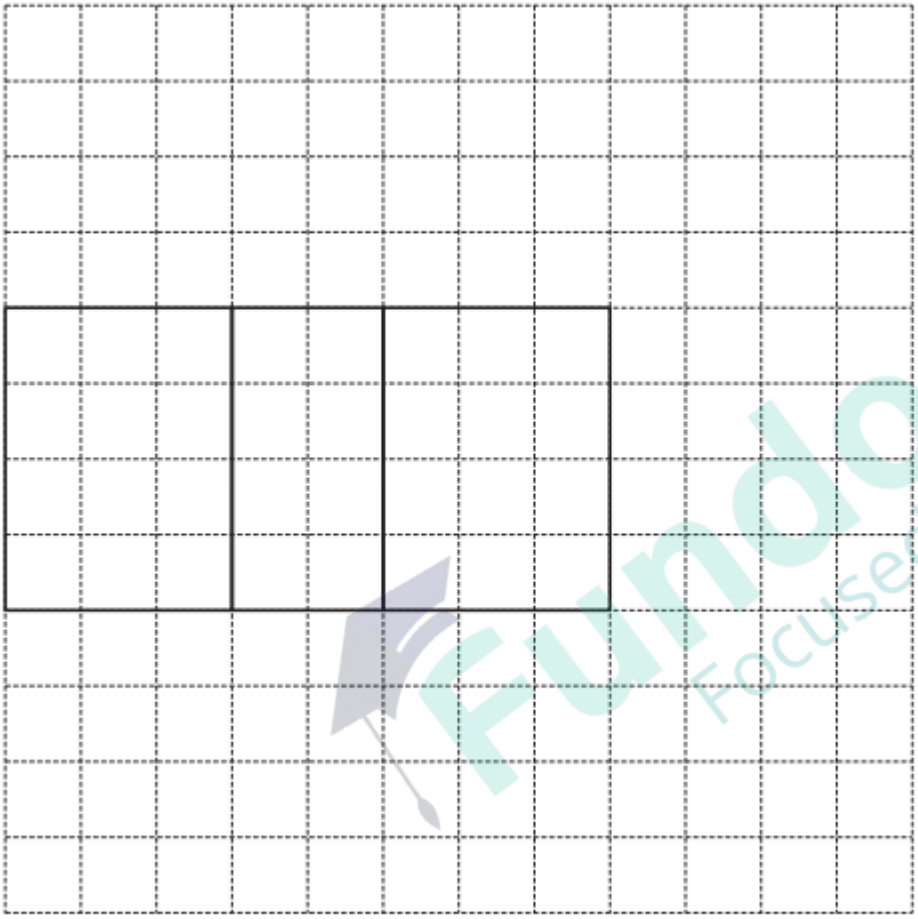
7. The diagram shows a closed box.



The box is a cuboid.

The measurements are in centimetres

On the grid below, complete an accurate drawing of the net of the box. Do not draw outside the grid



[2]

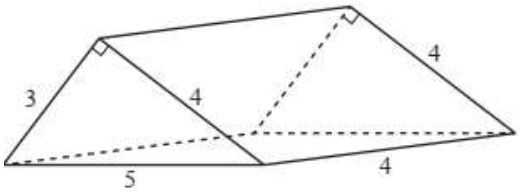
4024/11/O/N/18 Q10)

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8. The diagram shows a triangular prism.

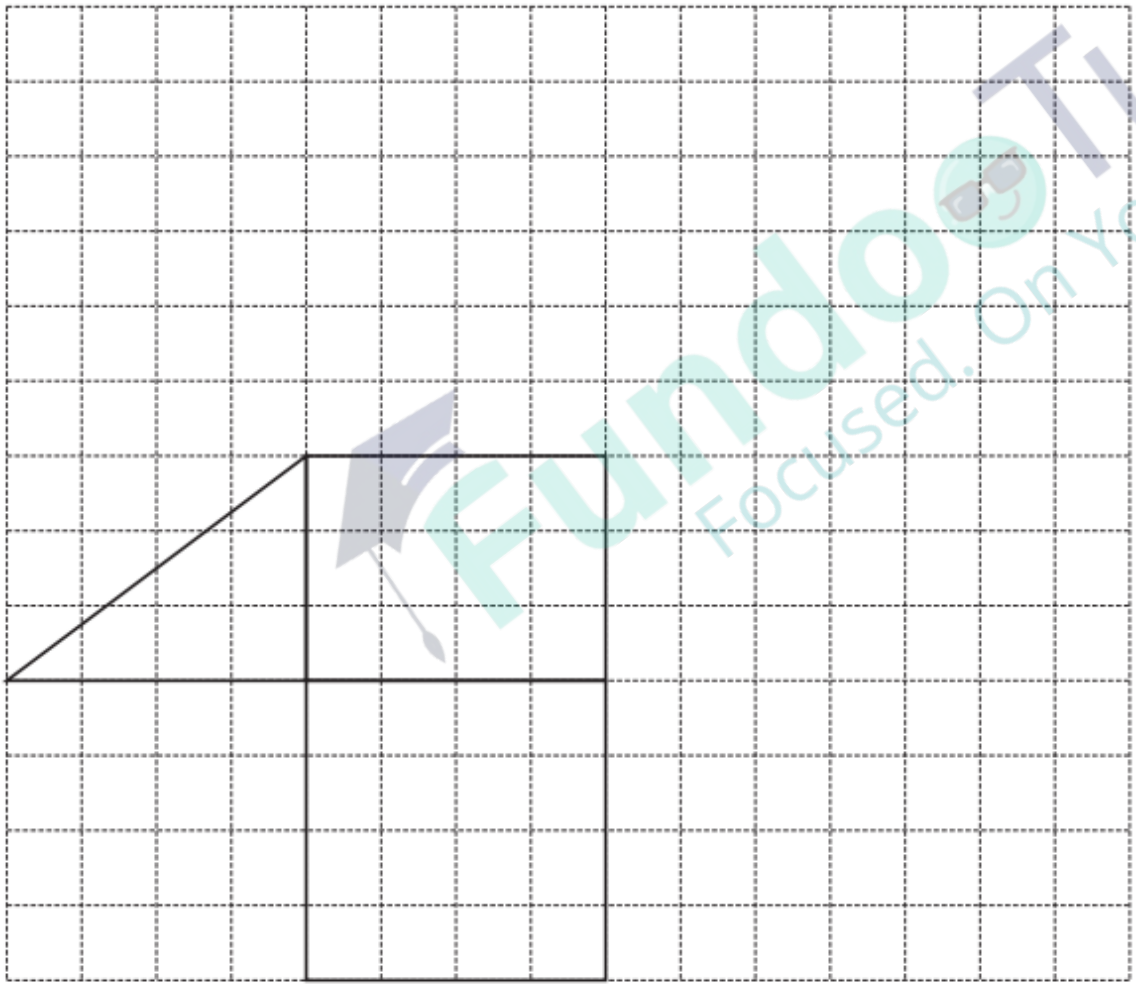
The measurements are in centimetres.



(a) On the grid below, complete the accurate drawing of a net of the prism.

Do not draw outside the grid. [2]

(b) Find the total surface area of the prism. [2]



[2]

4024/12/O/N/18 Q14

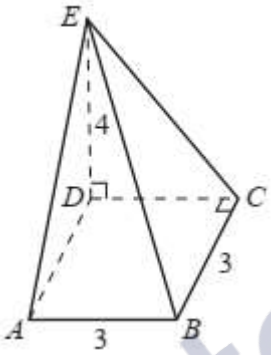
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9. The diagram shows a pyramid.

The square base, ABCD, has an edge of 3cm.

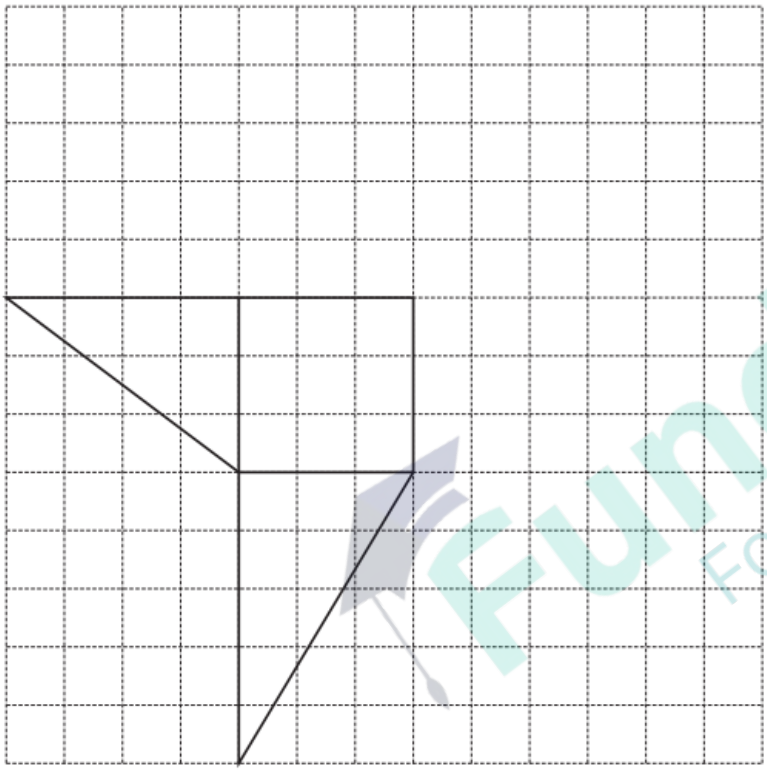
The base is horizontal, and vertex E is vertically above D, where ED = 4 cm.



(a) On the grid below, complete the accurate drawing of a net of the pyramid. [2]

Do **not** draw outside the grid.

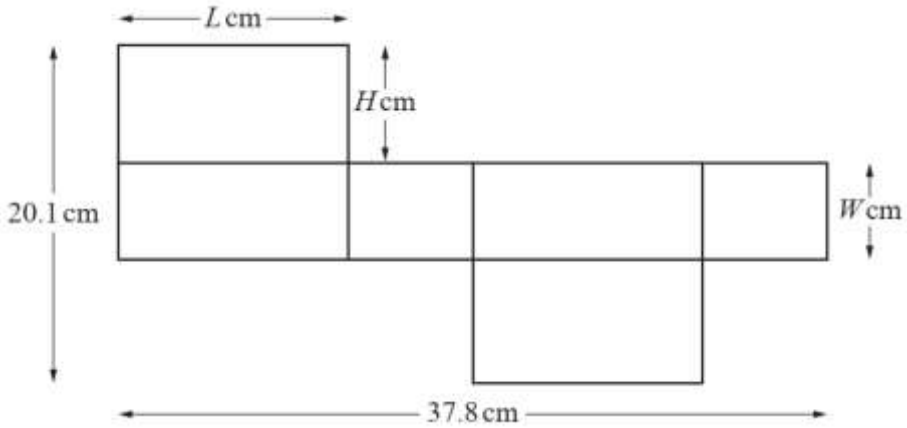
(b) Calculate the **total** surface area of the pyramid [2]



4024/12/M/J/18 Q17)

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10. A cuboid has length Lcm, width Wcm and height Hcm.



The diagram shows the net of this cuboid.

The ratio W : L = 1 : 2.

Find the value of L, the value of W and the value of H. [5]

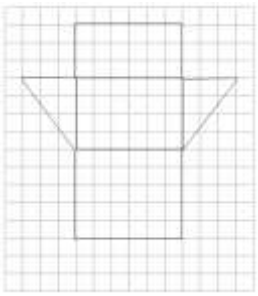
0580/42/M/J/21Q8

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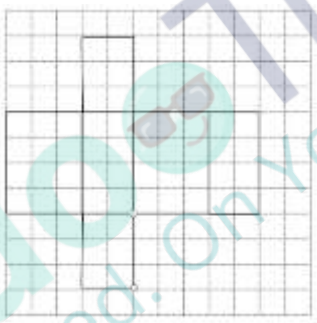
Answers

Q1) (a) [square-based] pyramid (b)5	Q6) Answer at the end
Q2) (a) cuboid (b)[square based]pyramid (c) [triangular]prism	Q7) Answer at the end
Q3) A , C , E	Q8) (a) Answer at the end (b)60
Q4) cylinder , r =1.5cm , h = 6cm	Q9) (a) Answer at the end (b)36
Q5) (a) *G* and *E* (b) BA or AB (c) 10	Q10) 11.8 , 5.9, 7.1

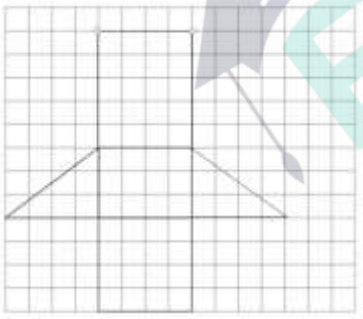
Answer Q6



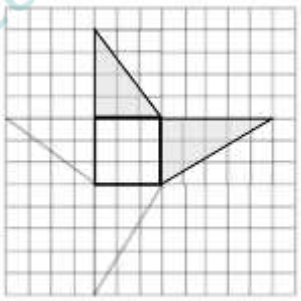
Answer Q7)



Answer Q8)



Answer 9 (a)



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