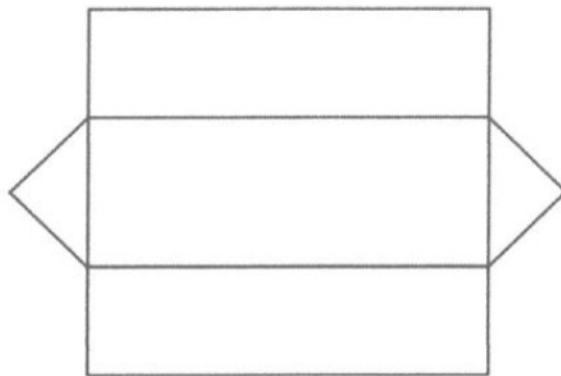


2

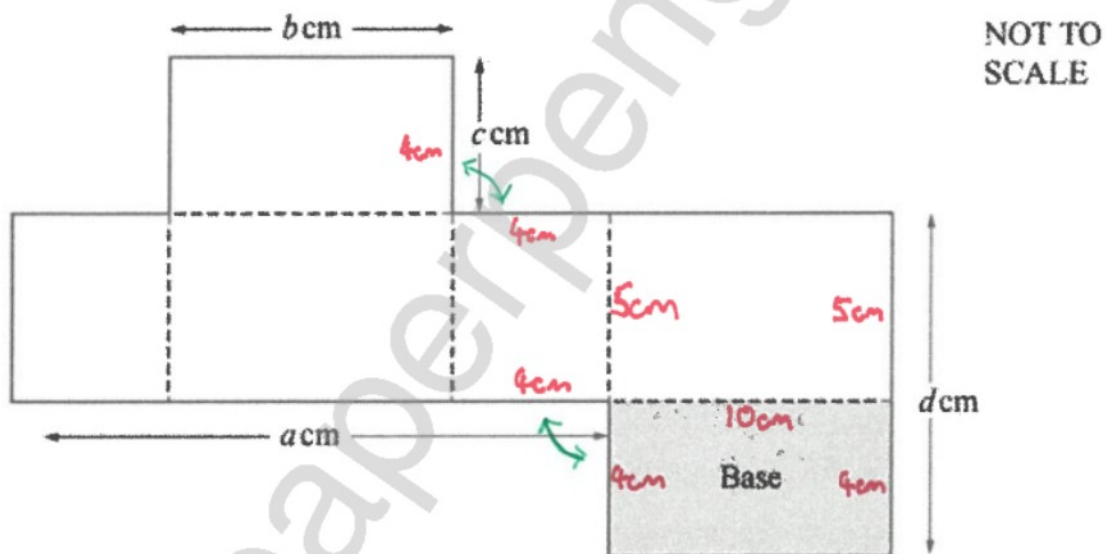


The diagram shows the net of a solid.

Write down the mathematical name of this solid.

Triangular Prism [1]

4



The diagram shows the net of a cuboid with its base shaded.

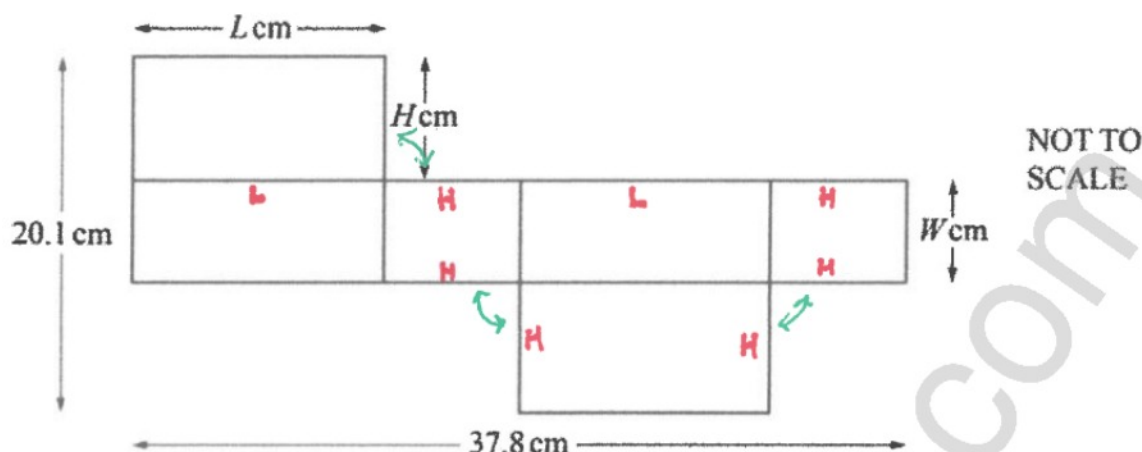
The length of the cuboid is 10 cm, its width is 4 cm and its height is 5 cm.

Write down the values of each of a , b , c and d .

$a = 18\text{ cm}$, $b = 10\text{ cm}$, $c = 4\text{ cm}$, $d = 9\text{ cm}$ [4]

- 8 (a) A cuboid has length L cm, width W cm and height H cm.

(Simultaneous Equations required)



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 .

$W : L = 1 : 2$

$$\frac{W}{L} = \frac{1}{2}$$

$$2W = L \quad (1)$$

37.8 cm length:

$$L + H + L + H = 37.8$$

$$2L + 2H = 37.8$$

Sub. (1):

$$2(2W) + 2H = 37.8$$

$$4W + 2H = 37.8 \quad (2)$$

20.1 cm length:

$$H + W + H = 20.1$$

$$W + 2H = 20.1 \quad (3)$$

$(2) - (3)$:

$$3W = 17.7$$

$$\div 3 \quad \div 3$$

$$W = 5.9$$

$\rightarrow (1)$:

$$2(5.9) = L$$

$$L = 11.8$$

$\rightarrow (3)$:

$$5.9 + 2H = 20.1$$

$$2H = 14.2$$

$$\rightarrow H = 7.1$$

$$L = 11.8$$

$$W = 5.9$$

$$H = 7.1 \quad [5]$$