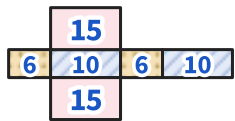
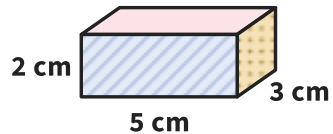


Surface Area of Cuboids

ANSWERS

1

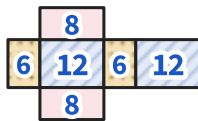
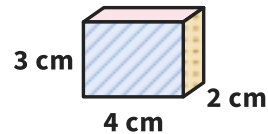
Work out the surface area.



$$\begin{array}{lcl} \text{top} & 5 \times 3 = 15 & \times 2 = 30 \\ \text{front} & 5 \times 2 = 10 & \times 2 = 20 \\ \text{side} & 3 \times 2 = 6 & \times 2 = 12 \\ & \text{total} & 62 \text{ cm}^2 \end{array}$$

2

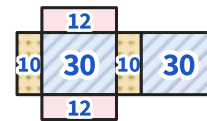
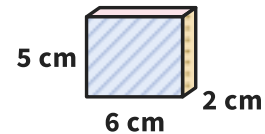
Work out the surface area.



$$\begin{array}{lcl} \text{top} & 4 \times 2 = 8 & \times 2 = 16 \\ \text{front} & 4 \times 3 = 12 & \times 2 = 24 \\ \text{side} & 2 \times 3 = 6 & \times 2 = 12 \\ & \text{total} & 52 \text{ cm}^2 \end{array}$$

3

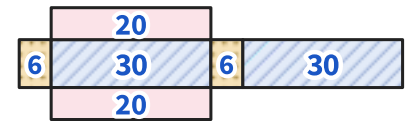
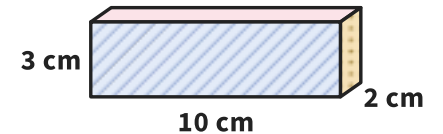
Work out the surface area.



$$\begin{array}{lcl} \text{top} & 6 \times 2 = 12 & \times 2 = 24 \\ \text{front} & 6 \times 5 = 30 & \times 2 = 60 \\ \text{side} & 2 \times 5 = 10 & \times 2 = 20 \\ & \text{total} & 104 \text{ cm}^2 \end{array}$$

4

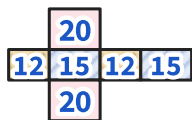
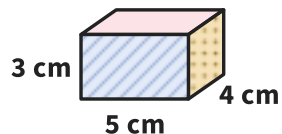
Work out the surface area.



$$\begin{array}{lcl} \text{top} & 10 \times 2 = 20 & \times 2 = 40 \\ \text{front} & 10 \times 3 = 30 & \times 2 = 60 \\ \text{side} & 2 \times 3 = 6 & \times 2 = 12 \\ & \text{total} & 112 \text{ cm}^2 \end{array}$$

5

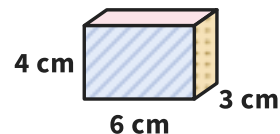
Work out the surface area.



$$\begin{array}{lcl} \text{top} & 5 \times 4 = 20 & \times 2 = 40 \\ \text{front} & 5 \times 3 = 15 & \times 2 = 30 \\ \text{side} & 4 \times 3 = 12 & \times 2 = 24 \\ & \text{total} & 94 \text{ cm}^2 \end{array}$$

6

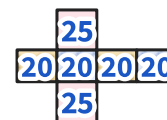
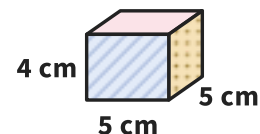
Work out the surface area.



$$\begin{array}{lcl} \text{top} & 6 \times 3 = 18 & \times 2 = 36 \\ \text{front} & 6 \times 4 = 24 & \times 2 = 48 \\ \text{side} & 3 \times 4 = 12 & \times 2 = 24 \\ & \text{total} & 108 \text{ cm}^2 \end{array}$$

7

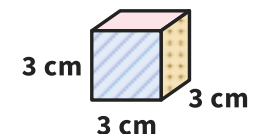
Paper covers this gift box.
Work out the area of the paper.



$$\begin{array}{lcl} \text{top} & 5 \times 5 = 25 & \times 2 = 50 \\ \text{front} & 5 \times 4 = 20 & \times 2 = 40 \\ \text{side} & 5 \times 4 = 20 & \times 2 = 40 \\ & \text{total} & 130 \text{ cm}^2 \end{array}$$

8

Work out the surface area of the cube.



$$\begin{array}{lcl} \text{top} & 3 \times 3 = 9 & \times 2 = 18 \\ \text{front} & 3 \times 3 = 9 & \times 2 = 18 \\ \text{side} & 3 \times 3 = 9 & \times 2 = 18 \\ & \text{total} & 54 \text{ cm}^2 \end{array}$$

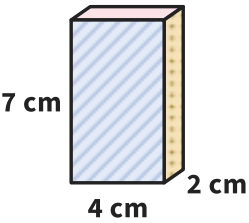
Surface Area of Cuboids *further practice*

ANSWERS

9



Work out the surface area.

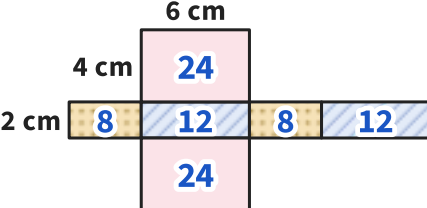


top $4 \times 2 = 8 \times 2 = 16$
front $4 \times 7 = 28 \times 2 = 56$
side $2 \times 7 = 14 \times 2 = 28$
total 100 cm^2

10



This is the net of a cuboid.
Work out the surface area of the cuboid.

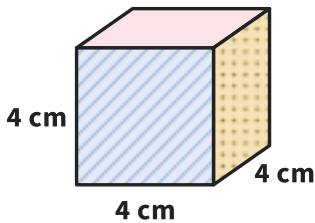


top $6 \times 4 = 24 \times 2 = 48$
front $6 \times 2 = 12 \times 2 = 24$
side $4 \times 2 = 8 \times 2 = 16$
total 88 cm^2

11



Work out the surface area of the cube.

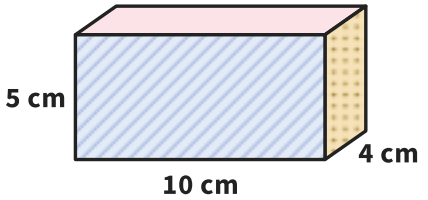


top $4 \times 4 = 16 \times 2 = 32$
front $4 \times 4 = 16 \times 2 = 32$
side $4 \times 4 = 16 \times 2 = 32$
total 96 cm^2

12



Every face of this block is painted.
Work out the area painted.

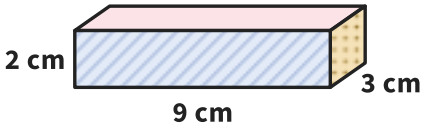


top $10 \times 4 = 40 \times 2 = 80$
front $10 \times 5 = 50 \times 2 = 100$
side $4 \times 5 = 20 \times 2 = 40$
total 220 cm^2

13



Work out the surface area.



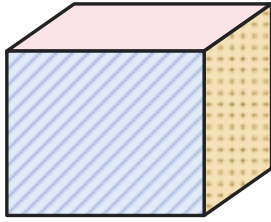
$54 + 36 + 12$

Answer 102 cm^2

14



A box is 6 cm long, 5 cm wide and 5 cm tall. Work out its surface area.



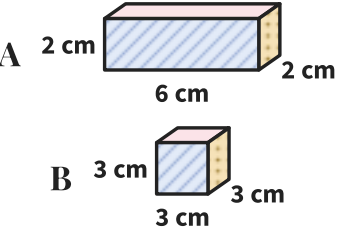
$60 + 60 + 50$

Answer 170 cm^2

15



Which has the bigger surface area, A or B?

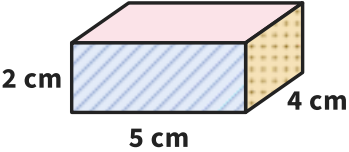


Surface area of A 56 cm^2
Surface area of B 54 cm^2
Answer A

16



Mia says the surface area is $20 + 10 + 8 = 38 \text{ cm}^2$. What has she done wrong?



Mia has only added $three \text{ faces, not six.}$

The surface area is 76 cm^2
