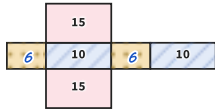
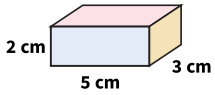


Surface Area of Cuboids

ANSWERS 

1

Work out the surface area of this cuboid.



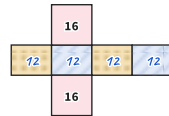
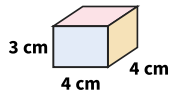
Matching faces come in pairs.

$$2 \times (15 + 10 + 6) = 62 \text{ cm}^2$$

Answer 62 cm²

2

Work out the surface area of this cuboid.

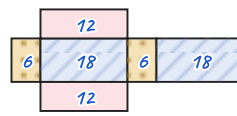
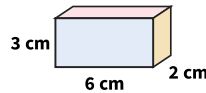


$$2 \times (16 + 12 + 12) = 80 \text{ cm}^2$$

Answer 80 cm²

3

Work out the surface area of this cuboid.

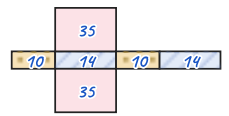
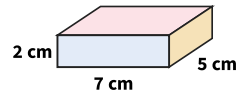


$$2 \times (12 + 18 + 6) = 72 \text{ cm}^2$$

Answer 72 cm²

4

Work out the surface area of this cuboid.

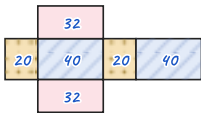
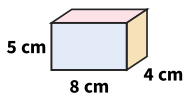


$$2 \times (35 + 14 + 10) = 118 \text{ cm}^2$$

Answer 118 cm²

5

Work out the surface area of this cuboid.

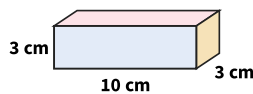


$$2 \times (32 + 40 + 20) = 184 \text{ cm}^2$$

Answer 184 cm²

6

Work out the surface area of this cuboid.



$$2 \times (30 + 30 + 9) = 138 \text{ cm}^2$$

Answer 138 cm²

7

A cube has edges of 4 cm.
Find its surface area.

$$6 \times 4 \times 4$$

Answer 96 cm²

8

A box is 10 cm by 6 cm by 5 cm.
It is wrapped with no overlap.
What area of paper is needed?

$$2 \times (60 + 50 + 30)$$

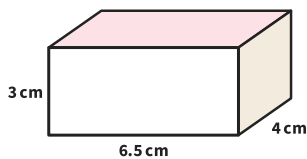
Answer 280 cm²

Surface Area of Cuboids *further practice*

ANSWERS 

9

Work out the surface area of this cuboid.

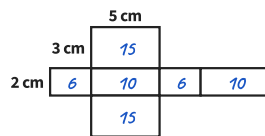


$$2 \times (26 + 19.5 + 12)$$

Answer 115 cm²

10

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

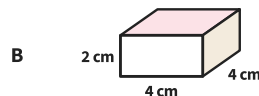
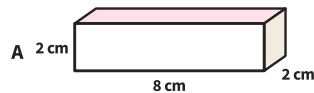


$$2 \times (15 + 10 + 6)$$

Answer 62 cm²

11

Which cuboid has the bigger surface area? By how much?



$$A = 72 \text{ cm}^2, B = 64 \text{ cm}^2$$

Answer A, by 8 cm²

12

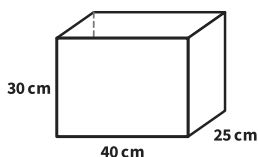
A cube has a surface area of 294 cm².
Work out the length of one edge.

$$294 \div 6 = 49, \text{ then } \sqrt{49}$$

Answer 7 cm

13

A glass fish tank has no lid. It is 40 cm long, 25 cm wide and 30 cm high.
Work out the area of glass.



$$1000 + 2 \times 1200 + 2 \times 750$$

Answer 4900 cm²

14

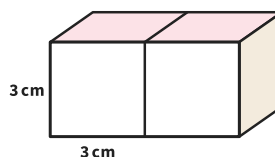
A toy box is 50 cm by 30 cm by 20 cm.
Every face is painted. One tin of paint covers 2500 cm². How many tins are needed?

$$6200 \div 2500 = 2.48, \text{ round up}$$

Answer 3 tins

15

Two cubes with 3 cm edges are glued together face to face. Work out the surface area of the new shape.



$$2 \times 54 - 2 \times 9$$

Answer 90 cm²

16

Ben says that if you double every edge of a cuboid, the surface area doubles.
Use a cuboid 1 cm by 2 cm by 3 cm to test Ben's idea.

$$22 \text{ cm}^2 \text{ becomes } 88 \text{ cm}^2$$

Answer No, it is 4 times as big