WORKSHEET

Name: ..... Class: .....

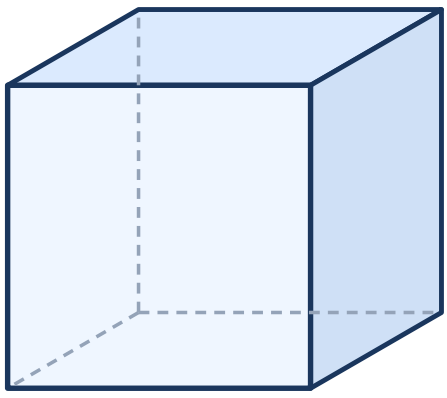
Date: .....

MARK ____ / 28

Answer all questions. Show all your working — marks are awarded for method as well as the final answer.

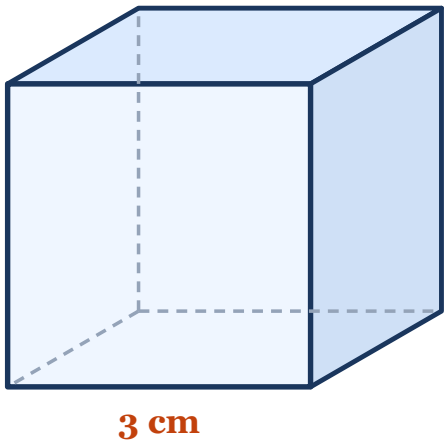
1 A cube has a volume of $343\ \text{cm}^3$. Determine the length of one edge, and hence the total surface area of the cube. **(4)**

2 Volume of a cube with side 4 cm *(cube)* **(1)**

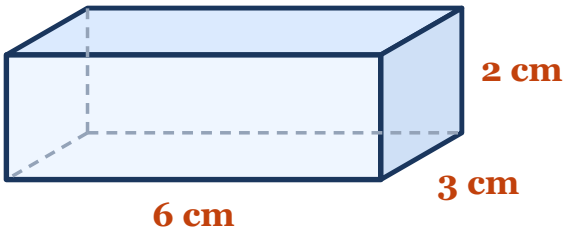


4 cm

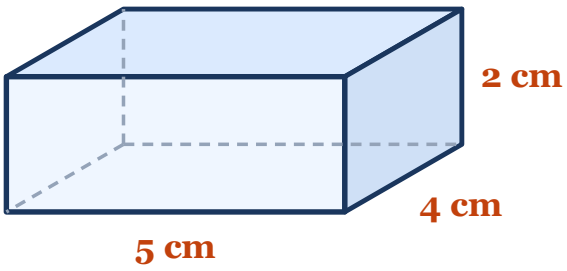
3 Surface area of a cube with side 3 cm *(cube)* (2)



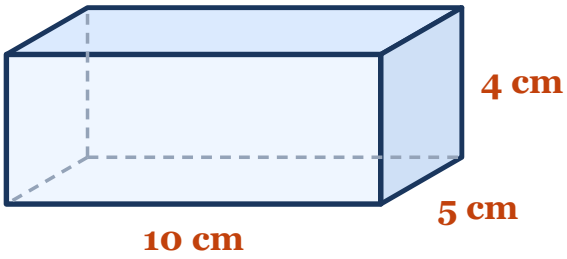
4 Volume of a box $6 \times 3 \times 2$ cm *(box)* (2)



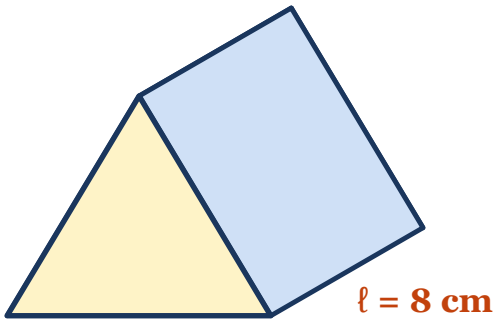
5 Surface area of a box $5 \times 4 \times 2$ cm *(box)* (3)



6 Volume of a box $10 \times 5 \times 4$ cm *(box)* (2)

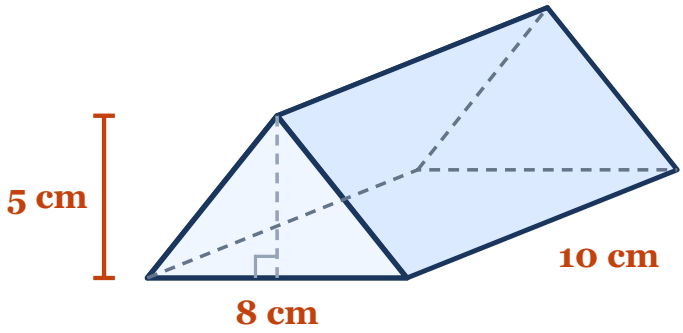


7 Triangular prism: cross-section area 15 cm^2, length 8 cm. Volume? *(prism)* (2)

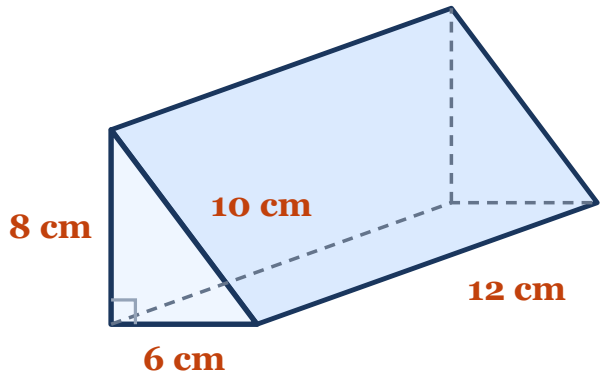


shaded cross-section = 15 cm^2

8 Triangular prism: triangle base 8 cm, height 5 cm, length 10 cm. Volume? *(prism)* (3)



9 Triangular prism: the cross-section is a right-angled triangle with sides 6 cm, 8 cm and 10 cm, and the prism is 12 cm long. Calculate its total surface area. *(prism)* **(4)**



10 How many mℓ does a 200 cm^3 container hold? *(capacity)* **(1)**

11 A box has volume 60 cm^3, base 5×4 cm. Find the height. *(reverse)* **(2)**

12 A cube has volume 125 cm^3. Find its side length. *(reverse)* **(2)**

TOTAL: 28 marks

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