

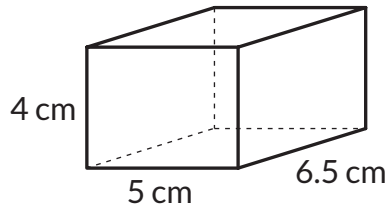
Worksheet : Surface Area and Volume  
G6.R43

Date:

Status:

**1** Find the volume and the surface area of the following solids.

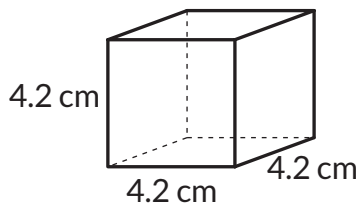
(a)



Volume =  cm<sup>3</sup>

Surface area =  cm<sup>2</sup>

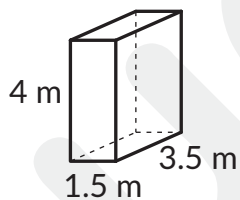
(b)



Volume =  cm<sup>3</sup>

Surface area =  cm<sup>2</sup>

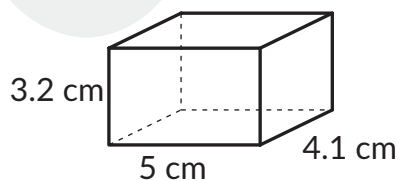
(c)



Surface area =  m<sup>2</sup>

Volume =  m<sup>3</sup>

(d)



Surface area =  cm<sup>2</sup>

Volume =  cm<sup>3</sup>

Solve the following problems.

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- (a) Find the side length of a cube whose surface area is  $6 \text{ m}^2$ .

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m

- (b) A cuboid's length is 4 cm and breadth is 2 cm. Find its height if its surface area is  $76 \text{ cm}^2$ .

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cm

- (c) The volume of a cube is  $216 \text{ cm}^3$ . What is the side length of the cube?

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cm

- (d) The volume of a cuboid is  $24 \text{ cm}^3$ . Find its height if its length is 4 cm and breadth is 6 cm.

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cm

- (e) The volume of a cuboid, whose length and breadth are equal, is  $72 \text{ m}^3$ . If the cuboid's height is 2 m, find its length and its surface area.

Length =  m    Surface area =   $\text{m}^2$

- (f) A cube, of side length 10 cm, has the same volume as that of a cuboid of height 10 cm and breadth 8 cm. Find the length and the surface area of the cuboid.

Length =  cm    Surface area =   $\text{cm}^2$