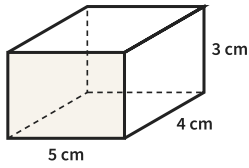


Interleaved: volume and surface area



1

Find the volume of the cuboid.



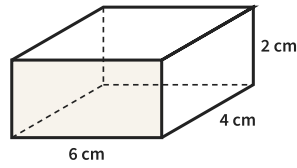
Which method? ☒ Volume ☐ Total surface area
☐ Area of one face

volume: $5 \times 4 \times 3$, so cm^3

Answer 60 cm³

2

Find the total surface area of the cuboid.

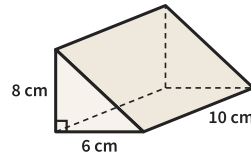


Which method? ☐ Volume ☒ Total surface area
☐ Area of one face

Answer _____

3

Find the area of the triangular end face of the prism.

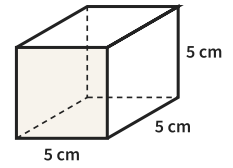


Which method? ☐ Volume ☐ Total surface area
☐ Area of one face

Answer _____

4

Find the total surface area of the cube.

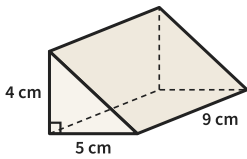


Which method? ☐ Volume ☐ Total surface area
☐ Area of one face

Answer _____

5

Find the volume of the prism.

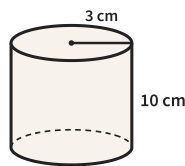


Which method? ☐ Volume ☐ Total surface area
☐ Area of one face

Answer _____

6

Find the area of the circular top of the cylinder. Give your answer to 1 decimal place.

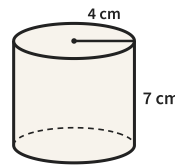


Which method? ☐ Volume ☐ Total surface area
☐ Area of one face

Answer _____

7

Find the volume of the cylinder. Give your answer to 1 decimal place.

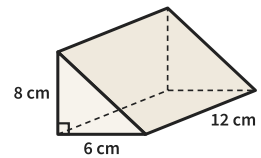


Which method? ☐ Volume ☐ Total surface area
☐ Area of one face

Answer _____

8

The sloping face of this prism is 10 cm wide. Find the total surface area of the prism.



Which method? ☐ Volume ☐ Total surface area
☐ Area of one face

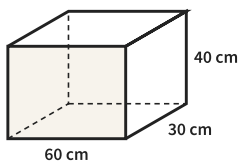
Answer _____

Interleaved: volume and surface area *further practice*



9

A fish tank is 60 cm long, 30 cm wide and 40 cm tall. How many litres of water does it hold when full? (1 litre = 1000 cm³)



Answer _____

10

A gift box is 20 cm by 15 cm by 10 cm. How much paper covers it exactly, with no overlap?

Answer _____

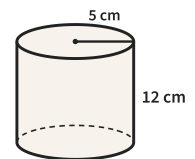
11

A tent is a triangular prism. Its triangular front is 1.6 m wide and 1.2 m tall. Find the area of the front.

Answer _____

12

A tin is a cylinder with radius 5 cm and height 12 cm. Find its volume to the nearest cm³.



Answer _____

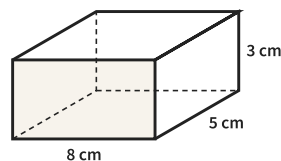
13

A cube has a volume of 64 cm³. Find its total surface area.

Answer _____

14

A cuboid is 8 cm by 5 cm by 3 cm. Find the area of its largest face.



Answer _____

15

A box with no lid is 30 cm long, 20 cm wide and 10 cm tall. How much card is needed to make it?

Answer _____

16

Leo says the volume of a cuboid 10 cm by 4 cm by 3 cm is $2(40 + 30 + 12) = 164 \text{ cm}^3$. Explain his mistake and find the volume.

Answer _____