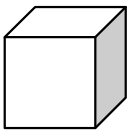
Volume of Cubes and Rectangular Prisms (Sheet 1)

Use $V=l^3$ to find the volume of these cubes. Remember to show a ^{3} on the units.

1



$V = l^3$

$= \square^3$

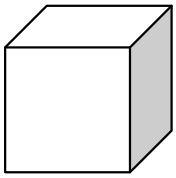
$V = \square$ cm^3

2

$V = l^3$

$=$

$V =$



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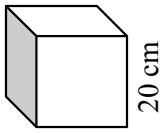

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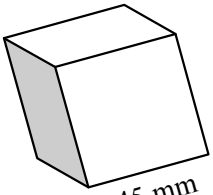
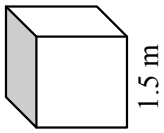


Round these answers to 2 d.p.

5



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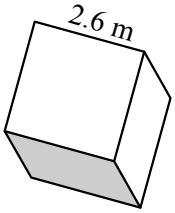

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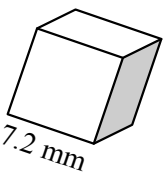
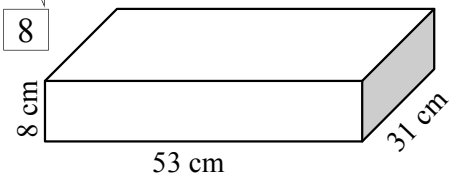


Use $V=lbh$ to find the volume of these rectangular prisms.

8

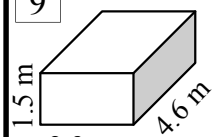


$V = lbh$

$= \square \times \square \times \square$

$V = \square$ cm^3

9



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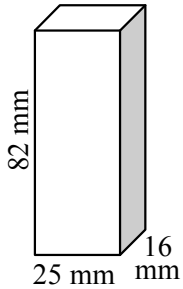

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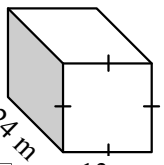
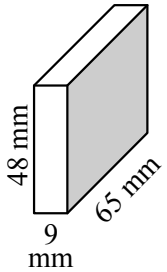


12



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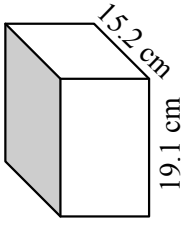

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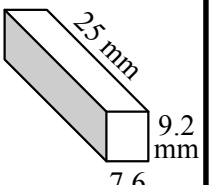


Now apply your skills to these. Round to 1 d.p. if required.

15 Ron is hiring a storage unit. It has sides 8 m, 7.3 m and 5.7 m. Find its volume to the nearest m^3.

16 If storage costs \$0.60/m^3 per mth, how much should Ron expect to pay for the storage unit per month?

17 Lilly's favorite glass is shaped like a rectangular prism. It is 12 cm tall with both sides 7 cm. Find its volume.

18 Lilly's drops 5 ice cubes in the empty glass. Each cube has a side length of 1.8 cm. Find volume of ice.

19 Find the amount of drink that can be added to the glass, in cm^3.

20 Calculate the volume of ice as a percentage of the glass volume.

$$\% \text{ Ice} = \frac{\square}{\square} \times 100$$

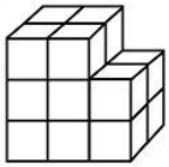
$\%$ Ice $=$

Name: _____

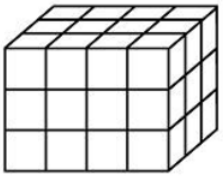
Volume Cubes

Count the cubes and write the volume of each shape.
The first one has been done for you as an example.

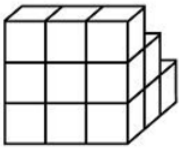
a.



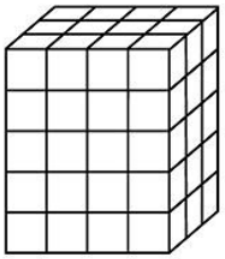
b.



c.

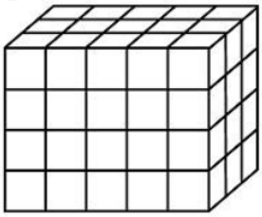


d.

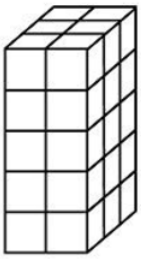


16 cubic units

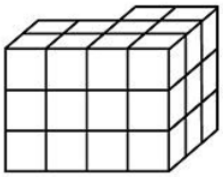
e.



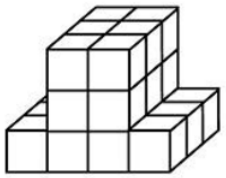
f.



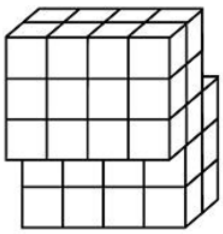
g.



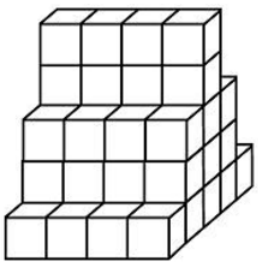
h.



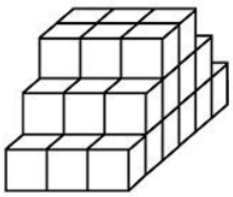
i.



j.



k.



l.