

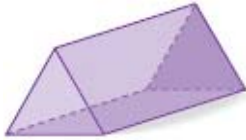
Area and Volume

Volume and Surface Area

10.2.1 Three-Dimensional Figures

Identify the number of faces, edges, and vertices on each three-dimensional figure.

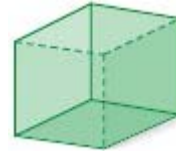
1.



2.



3.



Name each three-dimensional figure represented by each object.

4.



5.

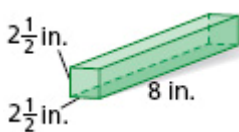


6.

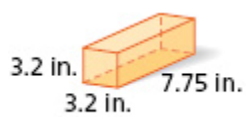
10.2.2 Volume of Prisms

Find the volume of each rectangular prism.

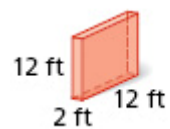
7.



8.



9.

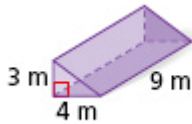


Area and Volume

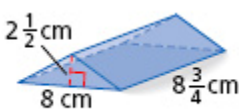
Volume and Surface Area

Find the volume of each triangular prism.

10.



11.



12.

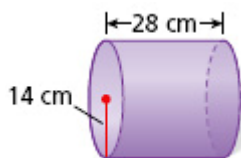


13. A printing company packs 18 cubic boxes of business cards in a larger shipping box. What are the possible dimensions for the shipping box?

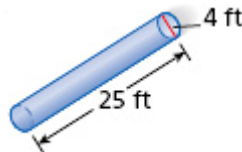
10.2.3 Volume of Cylinders

Find the volume V of each cylinder to the nearest cubic unit.

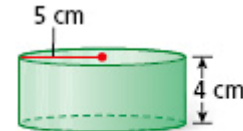
14.



15.



16.

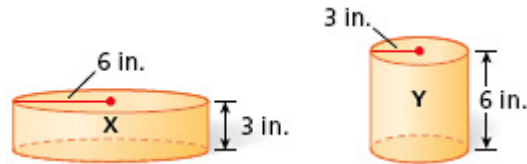


17. Wooden dowels are solid cylinders of wood. One dowel has a radius of 1 cm, and another dowel has a radius of 3 cm. Both dowels have a height of 10 cm. Estimate the volume of each dowel to the nearest cubic cm.

Area and Volume

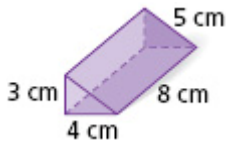
Volume and Surface Area

18. Find which cylinder, X or Y, has the greater volume.

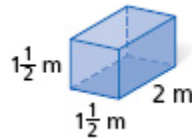
10.2.4 Surface Area

Find the surface area S of each prism.

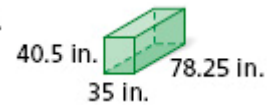
19.



20.

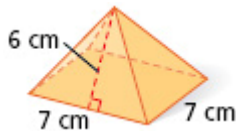


21.

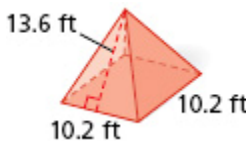


Find the surface area S of each pyramid.

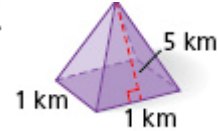
22.



23.

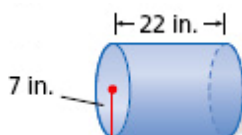


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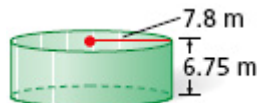


Find the surface area S of each cylinder. Use 3.14 for π , and round to the nearest hundredth.

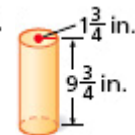
25.



26.



27.



Area and Volume

Volume and Surface Area

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