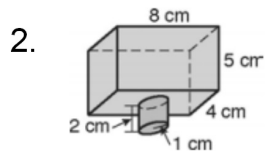
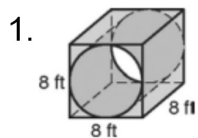
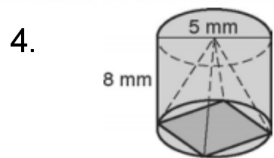
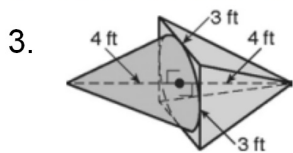


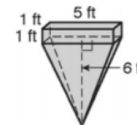
Find the volume of each composite figure. Round to the nearest tenth.



Find the volume of each composite figure. Round to the nearest tenth.



5. Find the volume of the cone.  
Find the volume of the cone after the radius and height are divided by 3.  
Describe the effect on the volume after dividing the dimensions of a cone by 3.  
Find the volume of the composite figure.



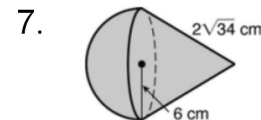
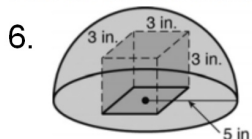

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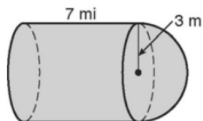
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Find the surface area and volume of each composite figure. Round to the nearest tenth.



8. Find the volume and surface area of the composite figure. Give your answers in terms of  $\pi$ .

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9. Use the figure for Exercises 8–10. The figure shows a can of three tennis balls. The can is just large enough so that the tennis balls will fit inside with the lid on. The diameter of each tennis ball is 2.5 in. Give exact fraction answers.



Find the total volume of the can.

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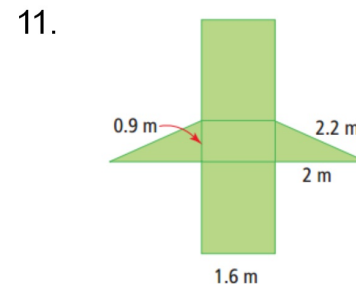
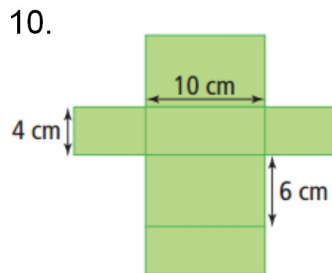
Find the volume of empty space inside the can.

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Tell what percent of the can is occupied by the tennis balls.

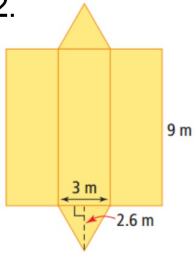
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Find the surface area of each prism using the area net



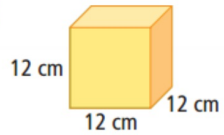
Find the surface area of each prism using the area net

12.

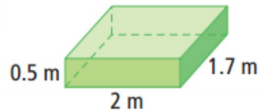


13. What is the surface area of each object?

a)



b)



17. The ratios of the lengths and heights of two similar prisms is 1:3.

a) If the height of the smaller prism is 6 cm, what is the height of the larger prism?

b) If the surface area of the smaller prism is  $65 \text{ cm}^2$ , what is the surface area of the larger prism?

c) If the volume of the larger prism is  $2700 \text{ cm}^3$ , what is the volume of the smaller prism?

18. The ratio of the volumes of two similar cylinders is 8:729. What is the ratio of their radii?

14. If the lengths and height of a prism are tripled, what happens to the...

a) Surface area of the prism?

b) Volume of the prism?

15. If the ratio of the lengths and heights of two similar prisms is 2:5, what is the ratios of the

a) Surface areas of the two prisms?

b) Volumes of the two prisms?

16. The ratios of the lengths and heights of two similar prisms is 1:6. What is the ratio of the

a) Surface areas of the two prisms?

b) Volumes of the two prisms?

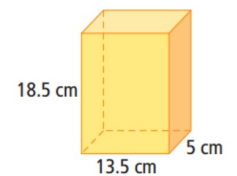
19. Each prism is made from the same precious metal.

Prism A sells for \$12,000 and

Prism B sells for \$2100.

Which is the better deal?

Prism A



Prism B

