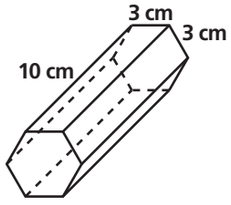
Name _____ Class _____ Date _____

Chapter Test Form G

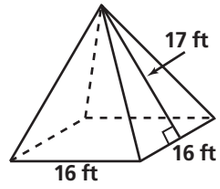
Chapter 11

Draw a net for each figure. Label each net with its appropriate dimensions.

1.

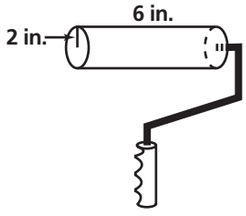


2.

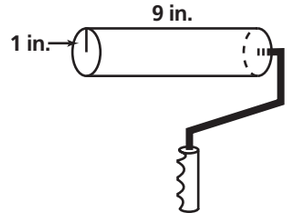


3. Paint roller A has a length of 6 in. and a radius of 2 in. Paint roller B has a length of 9 in. and a radius of 1 in. Which roller can spread more paint on a wall in one revolution? Explain, and give your calculations.

A.

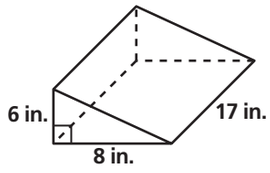


B.

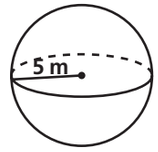


Find the volume and surface area of each figure to the nearest tenth.

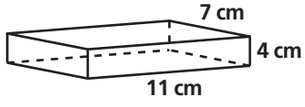
4.



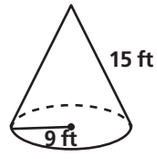
5.



6.



7.



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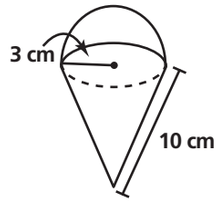
Chapter Test (continued) Form G

Chapter 11

8. Refer to the figure at the right.



a. What space figures can you use to approximate the shape of the ice-cream cone?

b. Find the entire figure's surface area to the nearest tenth.

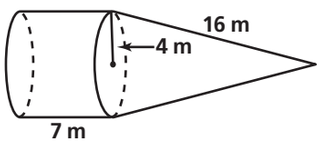
9. Which has a greater volume: two regular cans of soup, each with a diameter of 6 cm and a height of 5 cm, or one family-size can of soup, which has a diameter of 8 cm and a height of 6 cm? Explain and give your calculations.

10. Two similar cylinders have heights of 3 cm and 4 cm. What is the ratio of their volumes?

A. $\frac{1}{8}$ **B.** $\frac{3}{4}$ **C.** $\frac{9}{16}$ **D.** $\frac{27}{64}$

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

11.



12.