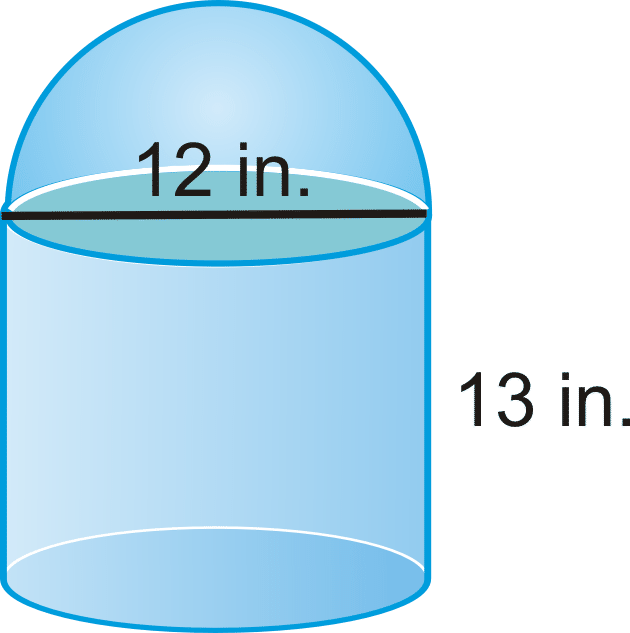
**Chapter 11 Test Review Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Math 3313 – Geometry Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_\_**

1. What is the difference between finding the volume and the surface area of the composite solid?

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2. You would like to line the inside of a drawer with shelf liner, including the sides. There is no top to the drawer. How much shelf liner will you need to cover the inside surface? Round to the nearest tenth.

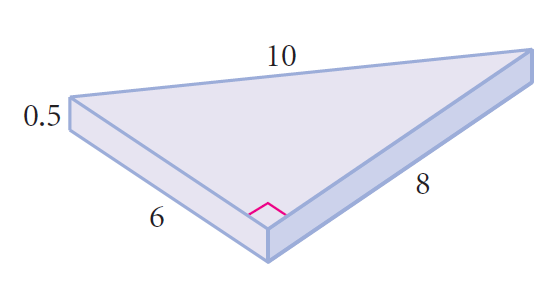
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**8 in**

**18.5 in**

**22.25 in**

3. You need to electroplate the following metal wedge with a thin layer of high-conducting silver. The measurements shown are in centimeters. How much silver will be needed? Round to the nearest tenth.



4. You would like to fill the can to the right with candy as a gift for Mother’s Day. It is 11 cm deep and has a diameter of 8 cm.

1. Before you give it as a gift, you’d like to cover the outside with colorful paper. How much paper will you need to cover the side and the bottom of the can? Do not include the top. Round to the nearest tenth.
2. What is the volume of candy that the container will hold? Round to the nearest tenth.

5. How much sheet metal is required to make a cylindrical trash can with a diameter of 2 feet and height of 4.25 feet? Round to the nearest tenth. Do not include the top. Round to the nearest tenth.

What is the volume of trash that the trash can will hold? Round to the nearest tenth.

**Find the total volume of the composite solids below. Round to the nearest tenth.**

**6. 7.**

18 ft

15 ft

16 ft

18 ft

5 ft

14 ft

**Volume of Hemisphere: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Volume of Pyramid: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Volume of Cylinder: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Volume of Prism: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Total Volume: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Total Volume: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Find the total surface area of the composite solids below. Round to the nearest tenth.**

**8. 9.**

7 m

24 m

40m

9m

53m

**Slant Height:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Cone Lateral Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Slant Height:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Cylinder Lateral Area: \_\_\_\_\_\_\_\_\_\_\_\_\_ Hemisphere Surface Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Cylinder Base Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Cone Lateral Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Total Surface Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Total Surface Area:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**For #10-13, find the required information. Round to the nearest tenth.**

**10. 11.**

14 m

24 m

14 m

20 cm

15cm

**Slant Height: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Slant Height: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Lateral Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Lateral Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Area of Base: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Area of Base: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Surface Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Surface Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Volume: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Volume: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**12. 13.**

16 in

18 in

4 m

3 m

5 m

17 m

**Lateral Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Lateral Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Area of Base: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Area of Base: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Surface Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Surface Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Volume: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Volume: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Find the surface area and volume each. Round to the nearest tenth.**

**14. 15. 16.**

7 in

22 mm

9 ft

**Surface Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Surface Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Surface Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Volume: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Volume: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Volume: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**17. Indicate whether the following are examples of surface area or volume. (Circle one)**

Filling a test tube with a solution S.A. / Volume

Covering a textbook with a book cover S.A. / Volume

The amount of ice cream in a container S.A. / Volume

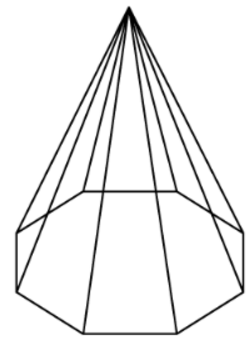
Painting the outside of a shed S.A. / Volume

Lining a drawer shelf with paper S.A. / Volume

The amount of tile needed to tile a bathtub surround S.A. / Volume

The amount of candy that a piñata can hold S.A. / Volume

**For each geometric solid, identify the number of faces, edges, and vertices.**



**18. 19. 20. 21.**

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Faces: \_\_\_\_\_\_\_\_\_\_\_ Faces: \_\_\_\_\_\_\_\_\_\_\_ Faces: \_\_\_\_\_\_\_\_\_\_\_ Faces: \_\_\_\_\_\_\_\_\_\_\_

Edges: \_\_\_\_\_\_\_\_\_\_\_ Edges: \_\_\_\_\_\_\_\_\_\_\_ Edges: \_\_\_\_\_\_\_\_\_\_\_ Edges: \_\_\_\_\_\_\_\_\_\_\_

Vertices: \_\_\_\_\_\_\_\_\_ Vertices: \_\_\_\_\_\_\_\_\_ Vertices: \_\_\_\_\_\_\_\_\_ Vertices: \_\_\_\_\_\_\_\_\_