

Chapter 7 Review

Please take a piece of notebook paper and number it from 1 to 22. We will work through the types of questions you will encounter on tomorrow's test.

Vocabulary Review

■ bases (p. 252)	cylinder (p. 252)	pyramid (p. 252)
center of a sphere (p. 253)	edge (p. 252)	sphere (p. 253)
cone (p. 253)	face (p. 252)	surface area (p. 256)
cross section (p. 271)	height (p. 252)	three-dimensional figure (p. 252)
cube (p. 252)	net (p. 256)	vertex (p. 252)
cubic unit (p. 263)	prism (p. 252)	volume (p. 263)

Choose the correct term to complete each sentence.

1. Each segment formed by the intersection of two faces of a solid is a(n) (base, edge).
2. A rectangular prism with faces that are all squares is a (cube, sphere).
3. A (prism, pyramid) has two parallel and congruent bases.
4. A two-dimensional shape that you see after slicing through a solid is called a (cross section, face).
5. A three-dimensional figure that has one circular base and one vertex is a (cone, cylinder).

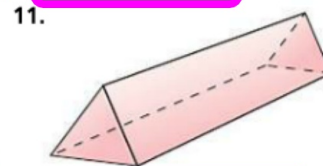
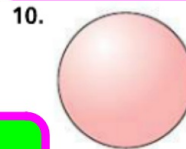
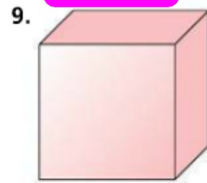
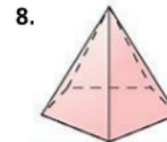
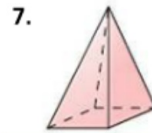
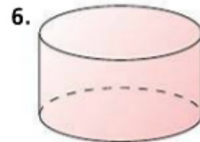
Skills and Concepts

Lesson 7-1

- To classify and draw three-dimensional figures

Some **three-dimensional figures** have only flat surfaces. **Prisms** and **pyramids** are named for the shape of their bases. **Cones** and pyramids have one **vertex**.

Name each figure.

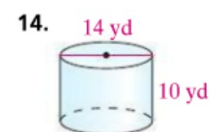
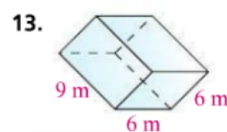
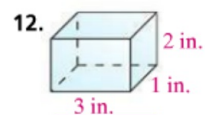


Lesson 7-2

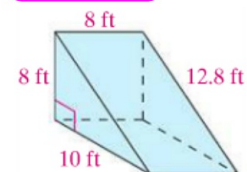
- To find the surface areas of prisms and cylinders using nets

To find the **surface area** of a prism or cylinder, draw a **net** and find the area of the net.

Find the surface area for each figure. Round to the nearest hundredth.



15. Elijah built a skateboard ramp with the dimensions shown at the right. He painted all of the outside surfaces of the ramp except for the bottom. What is the total amount of surface area that Elijah painted?



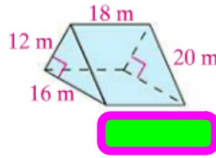
Lesson 7-3

- To find the volumes of prisms and cylinders

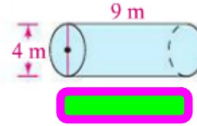
To find the **volume** of a prism, use the formula $V = Bh$. To find the volume of a cylinder, use the formula $V = \pi r^2 h$.

Find the volume for each figure. Round to the nearest hundredth.

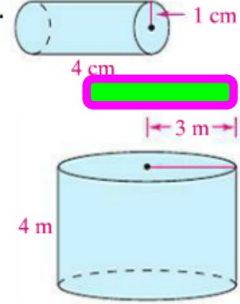
16.



17.



18.



19. A silo used to store grain is shown at the right. At the end of the season, the McMillan Farm fills the silo halfway with grain. What is the volume of the grain in the silo?

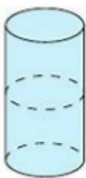
Lesson 7-4

- To describe cross sections that result from slicing three-dimensional figures

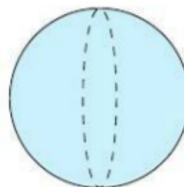
A **cross section** is the two-dimensional shape that you see after slicing through a three-dimensional object.

Describe each cross section.

20.



21.



22.

