Period:_____

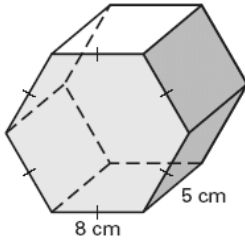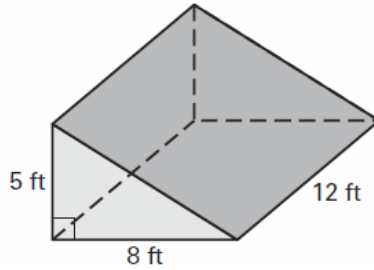| Target 3: *Find and apply the volume of solids.* |

Directions: Find the volume of the solid. Round to the nearest hundredth, if necessary.
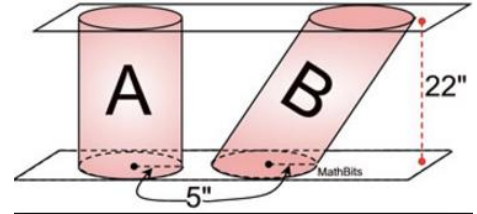
1)

5 cm

8 cm

Volume: _____

2)

5 ft   12 ft

8 ft

Volume: _____

3) Compare the volumes of A and B.

A   B   22"

5"   MathBits

Volume: _____

4)

44°   7.8 cm
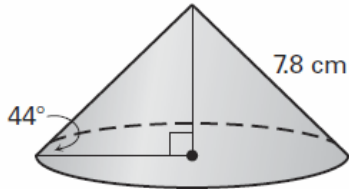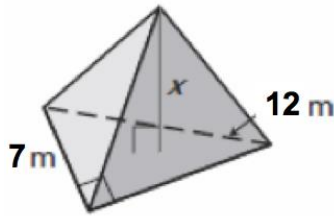
Volume: _____

5)

7 m   12 m

x

Volume: _____
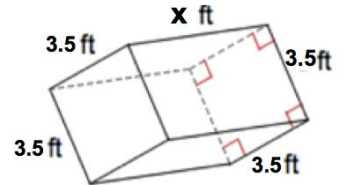
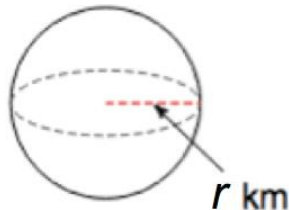6) Your giant shoe box is full of sand having a volume of 100.45 ft³. Find the missing height of the fallen box.

x ft

3.5 ft   3.5 ft
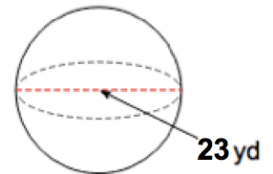
3.5 ft   3.5 ft

X= _____

7) Given the Volume of the Sphere, find the radius

$SA = 625\pi \ km^2$

r km

Volume: _____

8) Find the volume of the sphere.

23 yd

Volume: _____

Directions: Find the volume of the solid. Round to the nearest hundredth, if necessary.
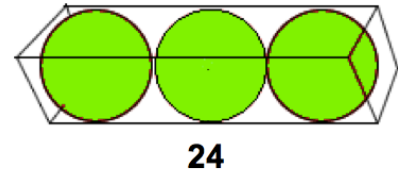
9)

21

8

Volume: _____

10)

25 cm

18 cm

48 cm

48 cm
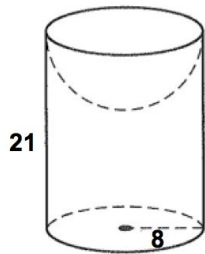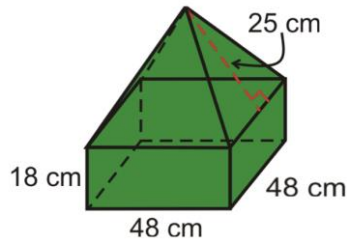
Volume: _____

11) Find the volume of the ***unused*** space in the container.

24

Volume: _____

12) A rubber shell filled with air forms a rubber ball. The shell's outer diameter is 65 millimeters, and its inner diameter is 56 millimeters. Find the volume of rubber used to make the ball. Round your answer to the nearest cubic centimeter.

Directions. Given the surface area of the solid, find the volume. Round to the nearest hundredth, if necessary.

13) $SA = 1000.91 \ in^2$

X in

18 in
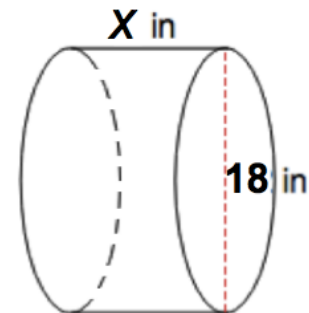
Volume: _____

Geometry Unit 12 Review Answers

1. $480\sqrt{3}$ cm^3 ≈ 831.384 cm^3
2. 240 ft^3
3. 1727.8759 in^3 They are the same.
4. ≈ 178.627 cm^3
5. 10.9996 m^3
6. x= 8.2 ft
7. r= 7.77 km

8. 6370.626 yd^3
9. 3149.97 units^3
10. 57600 cm^3
11. 731.7522 units^3
12. About 52 cm^3
13. 2213.8739 in^3