Math 10

Lesson 6-6 Answers

**Lesson Questions**

**Question 1**





**Question 2**





**Question 3**

 

**Question 4**

A hemisphere is half a sphere with a circular lid.





**Assignment**

1. a) 314 cm2 b) 32 m2

c) 201 ft.2 d) 99 cm2

2. a) 524 cm3 b) 17 m3

c) 268 ft.3 d) 92 cm3

3. a) 339 m2, 452 m3 b) 191 yd.2, 191 yd.3

4. 3.2 cm

5. a) Hemisphere b) Hemisphere

6. a) 511 185 933 km2

b) 357 830 153 km2

c) 1 086 781 293 000 km3

d) 1 078 037 876 000 km3

7. 239 spheres

8. a) 11 cm; 5 in. b) 1387 cm2; 268 in.2 c) 4855 cm3; 412 in.3 d) Basketball

9. a) Approximately 69%

b) Assumptions: Ball is created from one solid piece and has greatest possible diameter.

10. Approximately 5 in.

11. a) Inflated balloon's circumference is 3 times as great

b) Inflated balloon's surface area is 9 times as great

c) Inflated balloon's volume is 27 times as great