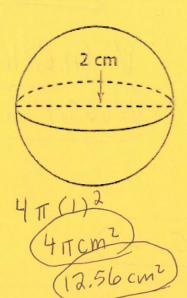
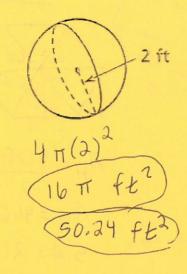
12.3 Spheres Practice and Review

Find the surface area. Give an answer in terms of pi and as a decimal

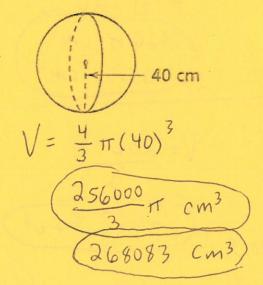


4.



Find the volume of the sphere. Give an answer in terms of pi and as a decimal.

3.



~ 2573310 cm3

S.A. =
$$90,790 \text{ cm}^2 = 4\pi \Gamma^2$$

 4π 4π 4π
 $7228.5 = \Gamma^2$ $V = \frac{4}{3}\pi (85)^3$

5. Given a sphere has a volume of 1200 ft³, find the surface area of the sphere as decimal.

$$V = \frac{1200 = \frac{4}{3}\pi r^{3}}{\frac{4}{3}\pi}$$

$$\frac{4}{3}\pi$$

$$\frac{4}{3}\pi$$

$$\frac{4}{3}\pi$$

$$\frac{4}{3}\pi$$

$$\frac{4}{3}\pi$$

$$\frac{7}{3}\times 86.48$$

$$286.48 = r^{3} \longrightarrow r = 6.59$$

471 (6.59) (546.1 Ft2

6. A baseball has a circumference of 24 cm². Find the volume of the baseball.

$$C = 2\pi r = 34$$

$$r = 3.82$$

$$V = \frac{4}{3}\pi(3.82)^3$$

 233.5 cm^3

