Spheres

$v^2 \leftarrow$ area

Find the surface area of each figure.

1)

3 ft

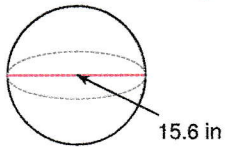2)

12 cm
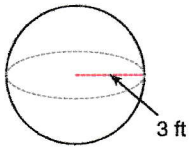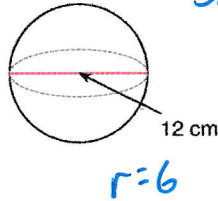
$SA = 4\pi r^2$

$4 \cdot \pi \cdot 6^2$
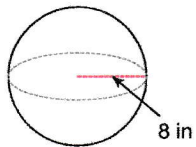
$452.16 \, cm^2$

$r = 6$

3)

15.6 in

4)

7 cm
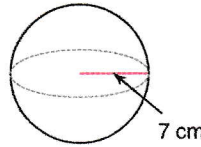
$SA = 4\pi r^2$
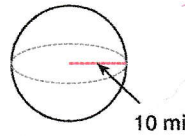
$4 \cdot \pi \cdot 7^2$

$SA = 615.44 \, cm^2$

5)

8 in

6)

10 mi

$SA = 4\pi r^2$

$4 \cdot \pi \cdot 10^2$

$SA = 1256 \, mi^2$

7) A sphere with a diameter of 6.2 in.

8) A sphere with a radius of 8 mi. $r = 8$

$4\pi r^2$

$4 \cdot \pi \cdot 8^2 = 803.84 \, mi^2$