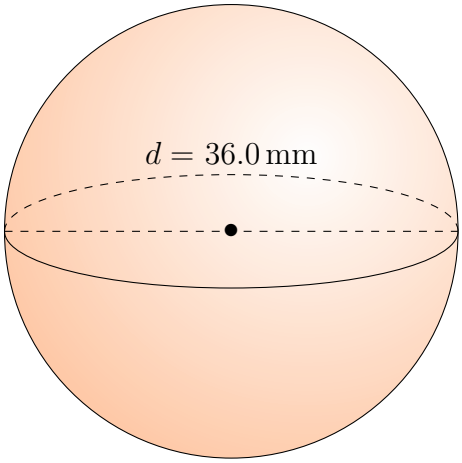
Surface Area and Volume of Spheres (F)

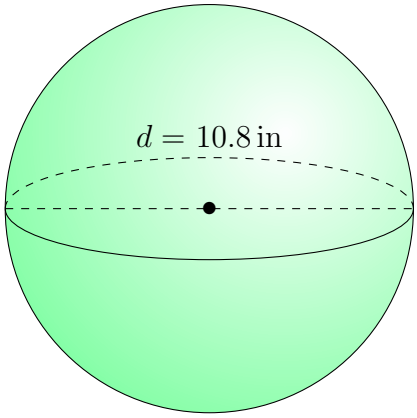
Calculate the surface area and volume for each sphere.

$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

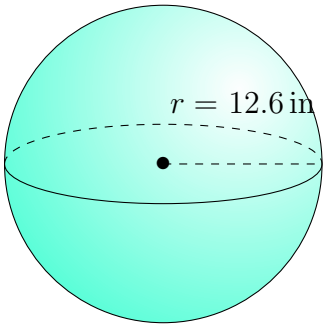
1.



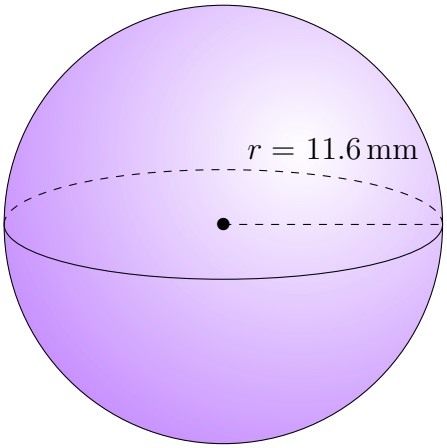
2.



3.



4.

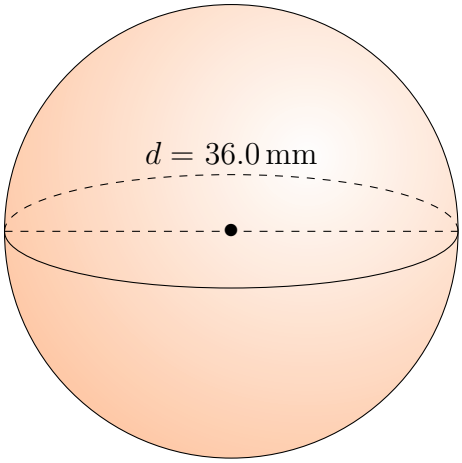


Surface Area and Volume of Spheres (F) Answers

Calculate the surface area and volume for each sphere.

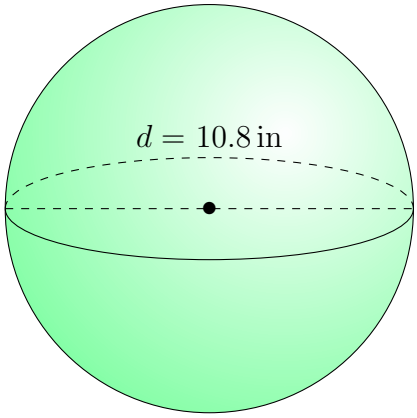
$$\text{Surface Area} = 4\pi r^2 \quad \text{Volume} = \frac{4}{3}\pi r^3$$

1.



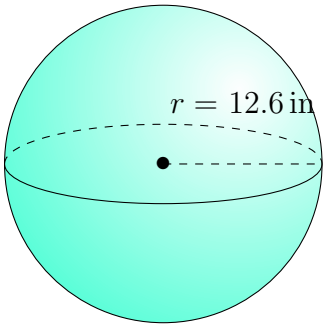
Surface Area: $4071.5\,\text{mm}^2$
Volume: $24{,}429.0\,\text{mm}^3$

2.



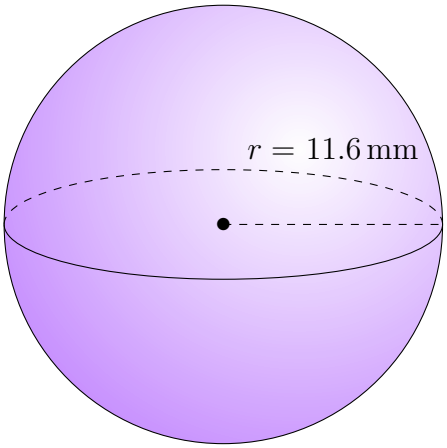
Surface Area: $366.4\,\text{in}^2$
Volume: $659.6\,\text{in}^3$

3.



Surface Area: $1995.0\,\text{in}^2$
Volume: $8379.2\,\text{in}^3$

4.



Surface Area: $1690.9\,\text{mm}^2$
Volume: $6538.3\,\text{mm}^3$