

Answer Key

Chapter 6

Lesson 6.1

Practice C

- 16
- 2187
- 1
- $\frac{27}{8}$
- $\frac{81}{4096}$
- 243
- $\frac{x^3}{2y^2}$
- $-\frac{4}{3y^2}$
- 1
- $-\frac{5y}{4x^2}$
- $12x$
- $\frac{4x^2}{y^4}$
- $16x^5$
- $\frac{y^{10}z^2}{4x^2}$
- $\frac{1}{x^{48}}$
- 2
- 6
- 4
- 3
- 5
- 3
- $\frac{4}{3}\pi\left(\frac{7}{4}\right)^3 \text{ in.}^3 = \frac{343\pi}{48} \text{ in.}^3$
- $\frac{190 \cdot \frac{4}{3}\pi\left(\frac{7}{4}\right)^3}{(20)^3} = \frac{6517\pi}{38,400}$
- $\approx 53.32\%$
- 345,600 in.³
- ≈ 8208 plastic balls