

Chapter 1 Test

- 1) $P = 22 \text{ cm}$
 $A = 24 \text{ cm}^2$
- 3) $C = 2 \pi \text{ RADIUS}$
 $C = 2 (3.14) (280 \text{ mm})$
 $C = 1758.4 \text{ mm}$
- 5) Since there are 24 hours in 1 day, we can calculate Larry's water drinking rate as
$$\frac{64 \text{ oz}}{1 \text{ day}} = \frac{64 \text{ oz}}{24 \text{ hrs}} = \frac{8}{3} \frac{\text{oz}}{\text{hr}} \approx 2.67 \frac{\text{oz}}{\text{hr}}$$
- 7)
- a) $1\frac{5}{8} = 1.625$
 - b) 1.512
 - c) $\frac{3}{2} = 1.5$
 - d) $145\% = 1.45$
 - e) $2^0 = 1$
- Since $1 < 1.45 < 1.5 < 1.512 < 1.625$, we have
 $2^0 < 145\% < \frac{3}{2} < 1.512 < 1\frac{5}{8}$
- 9) $-7 - 3 = -7 + -3 = -10$
- 11)
- a) $12 \div -3 = -4$
 - b) $-3 \cdot 2 = -6$
 - c) $-3 \div -12 = \frac{-3}{-12} = \frac{1}{4} = 0.25$
- 13)
- a) $115,000 = 1.15 \times 10^5$
 - b) $0.0000074 = 7.4 \cdot 10^{-6}$
- 15) 52 is 3 more than $49 = 7^2$, so we can estimate $\sqrt{52} \approx 7.2$.