

## Unit Conversions Practice

- 5280 = one mile
- 0.034 ounces = one milliliter
- 0.454 kg = one pound
- 1.6 kilometers = one mile
- 73 gallons = 2 barrels
- 1.05 quarts = one liter
- 4 quarts = one gallon

Do the following one-step unit conversions:

- 1) Convert 53 miles to feet.

$$\frac{53 \cancel{\text{mi}}}{1} \cdot \frac{5280 \text{ ft}}{1 \cancel{\text{mi}}} = \frac{279,840 \text{ ft}}{1} = 279,840 \text{ ft}$$

- 2) Convert 220 lbs to kilograms.

$$\frac{220 \cancel{\text{lbs}}}{1} \cdot \frac{0.454 \text{ kg}}{1 \cancel{\text{lbs}}} = 99.88 \text{ kg}$$

- 3) Convert 381 mL to ounces.

$$\frac{381 \cancel{\text{mL}}}{1} \cdot \frac{0.034 \text{ oz}}{1 \cancel{\text{mL}}} = \frac{12.954 \text{ oz}}{1} = 12.954 \text{ oz}$$

- 4) Convert 11 feet to miles.

$$\frac{11 \cancel{\text{ft}}}{1} \cdot \frac{1 \text{ mi}}{5280 \cancel{\text{ft}}} = \frac{11 \text{ mi}}{5280} = .002 \text{ mi}$$

- 5) Convert 8 quarts to liters.

$$\frac{8 \cancel{\text{qt}}}{1} \cdot \frac{1 \text{ L}}{1.05 \cancel{\text{qt}}} = \frac{8 \text{ L}}{1.05} = 7.619 \text{ L}$$

- 6) Convert .065 barrels to gallons.

$$\frac{.065 \cancel{\text{b}}}{1} \cdot \frac{73 \text{ gal}}{2 \cancel{\text{b}}} = \frac{4.745 \text{ gal}}{2} = 2.37 \text{ gal}$$