G5-M2-Lesson 14

- 1. Solve.
 - a. Convert quarts to gallons.

28 quarts =
$$28 \times (1 \text{ quart})$$

= $28 \times (\frac{1}{4} \text{ gallon})$
= $\frac{28}{4} \text{ gallons}$
= 7 gallons

1 quart is equal to $\frac{1}{4}$ gallon. I multiply 28 times $\frac{1}{4}$ gallon to find 7 gallons is equal to 28 quarts.

b. Convert grams to kilograms.

$$5,030 g = 5,030 \times (1 g)$$

= $5,030 \times (0.001 kg)$
= $5.030 kg$

 $1\ \text{gram}$ is equal to $0.001\ \text{kilogram}$. I multiply $5{,}030\ \text{times}\ 0.001\ \text{kilogram}$ to get $5.030\ \text{kilograms}$.

- 2. After solving, write a statement to express each conversion.
 - a. A jug of milk holds 16 cups. Convert 16 cups to pints.

$$16 \text{ cups} = 16 \times (1 \text{ cup})$$

$$= 16 \times \left(\frac{1}{2} \text{ pint}\right)$$

$$= \frac{16}{2} \text{pints}$$

1 cup is equal to $\frac{1}{2}$ pint. I multiply 16 times $\frac{1}{2}$ pint to find that 8 pints is equal to 16 cups.

16 cups is equal to 8 pints.

= 8 pints

b. The length of a table is 305 centimeters. What is its length in meters?

$$305 \text{ cm} = 305 \times (1 \text{ cm})$$

= $305 \times (0.01 \text{ m})$
= 3.05 m

1 centimeter is equal to $0.01\,\mathrm{meter}.$ I multiply $305\,\mathrm{times}~0.01\,\mathrm{meter}$ to get $3.05\,\mathrm{meters}.$

The table's length is 3,05 meters.