Measurements with Multiple Units

- 1. Convert 14 min and 15 s to seconds.
 - Step 1: Convert the 14 min into seconds.

$$\frac{y}{14 \text{ min}} = \frac{60 \text{ s}}{1 \text{ min}}$$

$$\frac{y}{14 \text{ min}} \times 14 \text{ min} = \frac{60 \text{ s}}{1 \text{ min}} \times 14 \text{ min}$$

$$y = 840 \text{ s}$$

Step 2: Add the two second measurements.

$$total = 840 s + 15 s$$

= 855 s

There are 855 s in 14 min and 15 s.

- 2. Convert 2 tons 75 pounds and 8 ounces to ounces.
 - Step 1: Convert 2 tons into pounds.

$$2 f \times \frac{2000 lbs}{1 f} = 4000 lbs$$

Step 2: Add the two pound measurements.

Step 3: Convert the 4075 pounds to ounces.

$$4075 \text{ Jbs} \times \frac{16 \text{ oz}}{1 \text{ Jb}} = 65 200 \text{ oz}$$

Step 4: Add the two ounce measurements.

$$2 t 75 lbs 8 oz = 65 200 oz + 8 oz$$

= $65 208 oz$

There are 65 208 ounces in 2 tons 75 pounds and 8 ounces.