Mass Conversion

1. Convert 72 kilograms to pounds.

$$\frac{y}{72 \text{ kg}} = \frac{1 \text{ lb}}{0.454 \text{ kg}}$$

$$\frac{y}{72 \text{ kg}} \times 72 \text{ kg} = \frac{1 \text{ lb}}{0.454 \text{ kg}} \times 72 \text{ kg}$$

$$y = 158.6 \text{ lb}$$

There are approximately 158.6 pounds in 72 kilograms.

2. Molly needs 15 grams of sugar for a cookie recipe. All of her measuring devices are in ounces. How many ounces of sugar does Molly need?

$$\frac{y}{15 g} = \frac{0.035 \text{ oz}}{1 \text{ g}}$$

$$\frac{y}{15 g} \times 15 g = \frac{0.035 \text{ oz}}{1 \text{ g}} \times 15 \text{ g}$$

$$y = 0.5 \text{ oz}$$

There are approximately 0.5 ounces in 15 grams.