

Ex 3. Lorinda is baking apple pies. According to her recipe, she needs 6 pounds of apples. The bag of apples she bought only shows the mass in kilograms. How many **kilograms** of apples does she need?

$$\frac{6 \cancel{\text{lbs}}}{1} \times \frac{1 \text{ kg}}{2.2 \cancel{\text{lbs}}} = \frac{6 \text{ kg}}{2.2} = 2.73 \text{ kg.}$$

Ex 4. A baby boy had a mass of 7 pounds 12 ounces at birth. What was his mass in **kilograms**?

$$\frac{7 \cancel{\text{lb}}}{1} \times \frac{1 \text{ kg}}{2.2 \cancel{\text{lb}}} = \frac{7 \text{ kg}}{2.2} = 3.18 \text{ kg.}$$

① oz → g → kg
 ② oz → lb → kg

$$\frac{12 \cancel{\text{oz}}}{1} \times \frac{28.35 \cancel{\text{g}}}{1 \cancel{\text{oz}}} \times \frac{1 \text{ kg}}{1000 \cancel{\text{g}}} = \frac{340.2 \text{ kg}}{1000} = 0.3402 \text{ kg}$$

$$3.18 \text{ kg} + 0.3402 \text{ kg} = 3.5202 \text{ kg} \approx 3.52 \text{ kg}$$

2.5 Practice

1. Convert:

a) 22 oz to pounds

b) 7890 lb to tons

c) 54 oz to pounds and leftover ounces

d) 6 lb, 2 oz to ounces

2. Kris needs to transport 5 slabs of concrete to an apartment work site. If each slab has a mass of 46 pounds, Kris is 195 pounds, and the truck is 1.5 tons, what is the total mass of the loaded truck in **pounds**?