

Name: _____

Math 10W Chapter 4.3-4.4 Assessment Quiz

*show all of your work.

1. Which unit – gram, kilogram or tonne – would you use to express the weight of the following:

- a) Dump truck **TONNE**
- b) Dresser **KILOGRAM**
- c) Frog **GRAM**
- d) Fridge **KILOGRAM**
- e) Snack size bag of potato chips. **GRAM**

2. To make enough cookies for a fundraiser, a soccer team needs 4 lb of macadamia nuts. The nuts cost \$11.74 for an 800 g bag. How much will it cost the team to buy the nuts? They cannot buy partial bags.

$$1 \text{ lb} = 454 \text{ g}$$

$$\text{so } \frac{800}{454} = 1.76 \text{ lb}$$

$$\# \text{ of BAGS} = \frac{4 \text{ lb}}{1.76 \text{ lb}} = 2.27 \text{ so NEED 3 BAGS}$$

$$\text{or } 11.74 \times 3 = \text{\$} 35.22$$

3. Lianne is hosting a dinner party and she knows that the Canada Food Guide serving suggestion for fish is 75 g per person. To have enough fish for 6 people, how many ounces of fish will she buy from the grocery store?

$$75 \text{ g} \times 6 = 450 \text{ g} \text{ OF FISH NEEDED.}$$

$$28.35 \text{ g} = 1 \text{ oz} \quad \text{So } \frac{450}{28.35} = 15.87 \text{ oz OF FISH NEEDED}$$

4. The stock room at a ski lodge contains 24 boxes of powdered soup mix. Each box holds 22 lb of soup mix.

- a) What is the weight of soup mix in kilograms?

$$24 \times 22 = 528 \text{ lbs}$$

$$1 \text{ kg} = 2.2 \text{ lbs} \quad \frac{528}{2.2} = 240 \text{ kg}$$

- b) If it takes 1.75 kilograms to feed 12 guests, how many guests could be fed with this supply?

$$\frac{240 \text{ kg}}{1.75 \text{ kg}} = 137.14 \text{ GROUPS OF 12}$$

$$\text{So } 137.14 \times 12 = 1645 \text{ PEOPLE}$$