





**Open Response (21 Marks)**

**Show ALL your work in the space provided. Put a box around your solution and be sure to include units.**

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1. Mr. Hallihan is hosting Thanksgiving dinner at his place. He knows that the Canada Food Guide serving suggestion for turkey is 75 g per person. In order to have enough for 16 family members, how many **pounds** of turkey should he buy from the grocery store? [2]

**Weight = \_\_\_\_\_**

2. Pat's fishing license allows him to catch up to 20 pounds of smallmouth bass in a particular lake. He catches 4 fish weighing: 12 lb 3 oz, 2 lb 15 oz, 7 lb 1 oz, and 10 oz.

- a) What is the total weight (**in pounds and ounces**) of the fish Pat caught? [2]

**Weight = \_\_\_\_\_ lbs \_\_\_\_\_ oz**

- b) Pat needs to throw back one fish to remain under his limit. Which fish should he throw back in order to get his **maximum legal weight**? [1]

**Size of the Fish = \_\_\_\_\_**

3. Your favourite gummy candies are being sold for \$3.00 for a package that weighs 12 ounces. Another option is to buy them in bulk for \$4.32/pound. Which of these choices would be the **best deal and how much do you save per ounce**? [3]

**Best Option: \_\_\_\_\_ Money Saved / Ounce = \$\_\_\_\_\_**

4. The conversion factor for iceberg lettuce is 60.35 bu/t. What would be the weight of 9 bushels, in **kilograms**? [2]

**Weight = \_\_\_\_\_**

5. Your SI unit candy thermometer displays a temperature of  $60^{\circ}\text{C}$  in the fudge you are cooking. Your cookbook says the fudge batter must be heated to exactly  $175^{\circ}\text{F}$ .

a) How many **degrees Celsius away** from  $175^{\circ}\text{F}$  is the mixture? [2]

**Temperature = \_\_\_\_\_**

b) Is your mixture above or below this temperature? **Circle:** ABOVE / BELOW [1]

6. An elevator has a maximum capacity of 1350 lb. Charlie weighs 245 lb and he has 25 pallets of paper to deliver in the building. Each pallet weighs 62 kg.

a) If Charlie always rides the elevator with his paper deliveries, how much remaining capacity does the elevator have in **kilograms**? [2]

**Remaining Capacity = \_\_\_\_\_**

b) How many pallets at a time can Charlie load into the elevator? **He cannot load partial pallets.** [1]

**Number of Pallets = \_\_\_\_\_**

c) How many trips will Charlie make to deliver **all** the paper? [1]

**Number of Trips = \_\_\_\_\_**

7. There are 10 containers packed with peanuts. Each container measures 2.5 feet by 4 feet by 1.5 feet.

a) How many **cubic inches** of peanuts are there in **total**? [3]

**Volume = \_\_\_\_\_**

b) If a bushel is 2250 cubic inches, how many **bushels** of peanuts are there in total? [1]

**Number of Bushels = \_\_\_\_\_**