

2023 Math Problems

1. You have been asked to create a pork and bison snack stick that is 70% lean so it will dry properly. Your bison is 90% lean and your pork trimmings that will be used are 65% lean. Your total batch is 500 pounds. How much bison do I need to order for two batches.

a. 100 pounds **b. 200 pounds** c. 400 pounds d. 800 pounds

2. I am making 6 batches of a recipe that needs 48 grams of baking soda per batch. How many ounces of baking soda do I need to get all the recipes covered.

a. 9 b. 10 **c. 11** d. 12

3. You have been making a wheat cracker product for the last 5 weeks. Your start weight and your finished weights are listed below. What is the average shrink of your product for your last 5 weeks?

Date of Batch	Start Weight in lbs	Final weight in lbs.
9/14/23	625	380
9/20/23	710	520
9/26/23	590	400
10/3/23	680	450
10/12/23	910	630

a. 67.4% b. 66.2 % c. 33.8 % **d. 32.6 %**

4. I need to measure the temperature of our roast beef product that we have started selling. My meat thermometer only reads in Celsius. If I need to cook the product to at least 190 degree Fahrenheit, what should my thermometer read?

- a. 87 degrees C **b. 88 degrees C** c. 89 degrees C d. 90 degrees C

5. If I have two cylindrical tanks that are 10 foot tall and 6 foot wide. How many 16 oz bottles of a sport drink can I fill from them when they are full. Consider no freespace at the top of the tank.

- a. **33823**
b. 16904
c. 33808
d. 27098