

Grade 4th Math Worksheet 4 : Measurement of Weight-Conversions and Operations (Advanced Level)

Name: _____

Date: _____

Part 1: Complex Conversion of Units of Weight

1. Convert the following weights:

- a) 62.5 kilograms (kg) = _____ grams (g)
 - b) 5.4 kilograms (kg) = _____ grams (g)
 - c) 2,150 milligrams (mg) = _____ grams (g)
 - d) 19.75 kilograms (kg) = _____ grams (g)
 - e) 15.2 kilograms (kg) = _____ grams (g)
 - f) 450,000 milligrams (mg) = _____ grams (g)
 - g) 0.75 kilograms (kg) = _____ milligrams (mg)
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Part 2: Addition and Subtraction of Weights

2. Solve the following:

- a) Add: 8.9 kg (flour) + 6.3 kg (sugar) + 4.1 kg (butter) = _____ kg
 - b) Subtract: 25.7 kg (apples) - 16.4 kg (used) = _____ kg
 - c) Add: 3.5 kg (carrots) + 7.2 kg (potatoes) + 2.9 kg (onions) = _____ kilograms and grams
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Part 3: Multiplication and Division with Weights

3. Solve the following:

a) Multiply: $5.3 \text{ kg (chicken)} \times 4 = \underline{\hspace{2cm}}$ kg or $\underline{\hspace{2cm}}$ grams

b) Divide: $63 \text{ kg (rice)} \div 9 = \underline{\hspace{2cm}}$ kg or $\underline{\hspace{2cm}}$ grams

c) Multiply: $2.6 \text{ kg (cheese)} \times 8 = \underline{\hspace{2cm}}$ kg or $\underline{\hspace{2cm}}$ grams

d) Divide: $21.9 \text{ kg (watermelon)} \div 7 = \underline{\hspace{2cm}}$ kg or $\underline{\hspace{2cm}}$ grams

Part 4: Word Problems on Weight

4. Answer the following questions:

a) You have 50 kilograms of rice. How many grams of rice is that?
 $\underline{\hspace{2cm}}$ grams

b) A watermelon weighs 4.6 kilograms. How many grams is that?
 $\underline{\hspace{2cm}}$ grams

c) You have 6.5 kilograms of flour. You want to divide it equally into 5 portions. How much flour will each portion weigh in kilograms and grams?
 $\underline{\hspace{2cm}}$ kilograms and $\underline{\hspace{2cm}}$ grams per portion

d) A chocolate bar weighs 250 grams. How many chocolate bars will you have if you have a total of 3 kilograms of chocolate?
 $\underline{\hspace{2cm}}$ chocolate bars

Part 5: Real-Life Applications with Weight

5. Answer the following questions:

a) Your suitcase weighs 22.6 kilograms. You buy a new pair of shoes that weigh 1.8 kilograms. What will your suitcase weigh now in kilograms and grams?
 $\underline{\hspace{2cm}}$ kg and $\underline{\hspace{2cm}}$ g

b) You are buying fruits for a party. You buy 4.3 kilograms of apples, 5.6 kilograms of bananas, and 3.1 kilograms of grapes. What is the total weight of the fruit in kilograms and grams?

_____ kg and _____ g

c) You have 12 kilograms of sugar. A recipe calls for 3.7 kilograms of sugar. How much sugar will you have left after using 3.7 kilograms for the recipe?

_____ kilograms

d) You have 14.8 kilograms of flour. A recipe calls for 250 grams of flour. How much flour will be left after using 250 grams for the recipe?

_____ kilograms and _____ grams

Bonus Challenge:

6. You are preparing for a picnic and need to buy 200 grams of cheese for each sandwich. If you are making 45 sandwiches, what will the total weight of cheese be in kilograms and grams?

_____ kg and _____ g

--BE THE CHAMPION!--