

Grade 4th Math Worksheet 3 : Measurement of Weight-Conversions and Operations (Advanced Level)

Name: _____

Date: _____

Part 1: Complex Conversion of Units of Weight

1. Convert the following weights:

- a) 56 kilograms (kg) = _____ grams (g)
 - b) 8.25 kilograms (kg) = _____ grams (g)
 - c) 3,800 milligrams (mg) = _____ grams (g)
 - d) 14.2 kilograms (kg) = _____ grams (g)
 - e) 11.75 kilograms (kg) = _____ grams (g)
 - f) 200,000 milligrams (mg) = _____ grams (g)
 - g) 0.65 kilograms (kg) = _____ milligrams (mg)
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Part 2: Addition and Subtraction of Weights

2. Solve the following:

- a) Add: 5.7 kg (apples) + 3.8 kg (oranges) + 2.5 kg (pears) = _____ kg
 - b) Subtract: 18.9 kg (flour) - 7.4 kg (used) = _____ kg
 - c) Add: 2.2 kg (carrots) + 4.3 kg (potatoes) + 1.9 kg (tomatoes) = _____ kilograms and grams
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Part 3: Multiplication and Division with Weights

3. Solve the following:

a) Multiply: $4.5 \text{ kg (sugar)} \times 6 = \underline{\hspace{2cm}} \text{ kg or } \underline{\hspace{2cm}} \text{ grams}$

b) Divide: $48 \text{ kg (rice)} \div 8 = \underline{\hspace{2cm}} \text{ kg or } \underline{\hspace{2cm}} \text{ grams}$

c) Multiply: $3.6 \text{ kg (chicken)} \times 7 = \underline{\hspace{2cm}} \text{ kg or } \underline{\hspace{2cm}} \text{ grams}$

d) Divide: $12.6 \text{ kg (watermelon)} \div 3 = \underline{\hspace{2cm}} \text{ kg or } \underline{\hspace{2cm}} \text{ grams}$

Part 4: Word Problems on Weight

4. Answer the following questions:

a) You have 30 kilograms of flour. How many grams of flour is that?
 $\underline{\hspace{2cm}}$ grams

b) A bag of potatoes weighs 5.2 kilograms. How many grams is that?
 $\underline{\hspace{2cm}}$ grams

c) You have 7.6 kilograms of sugar. You want to divide it equally into 4 portions. How much sugar will each portion weigh in kilograms and grams?
 $\underline{\hspace{2cm}}$ kilograms and $\underline{\hspace{2cm}}$ grams per portion

d) A watermelon weighs 8.3 kilograms. If you eat 3.1 kilograms, how much watermelon is left?
 $\underline{\hspace{2cm}}$ kilograms

Part 5: Real-Life Applications with Weight

5. Answer the following questions:

a) Your suitcase weighs 19.3 kilograms. You buy a new jacket that weighs 1.7 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 4.5 kilograms of apples, 3.8 kilograms of bananas, and 2.5 kilograms of grapes. What is the total weight of the fruit in kilograms and grams?

_____ kg and _____ g

c) You have 10 kilograms of flour. A recipe calls for 3 kilograms of flour. How much flour will you have left after using 3 kilograms for the recipe?

_____ kilograms

d) You have 15 kilograms of rice. A recipe calls for 500 grams of rice. How much rice will be left after using 500 grams for the recipe?

_____ kilograms and _____ grams

Bonus Challenge:

6. You are baking cookies and need 175 grams of chocolate for each batch. If you are baking 25 batches, what will the total weight of chocolate be in kilograms and grams?

_____ kg and _____ g

--BE THE CHAMPION!--