

Mass & weight word problems (metric units)

Grade 4 Word Problems Worksheet

1. Camille buys 1 package of ground beef and 4 bags of sugar. The mass of the beef is 1250 g and each bag of sugar weighs 600 g. How much weight did Camille have to carry? Express your answer in kilograms and grams.

2. Chef Teri ordered 4 sacks of skim milk and 3 sacks of cornstarch. Each sack of skim milk weighs 10.5 kg. How much skim milk did Chef Teri order?

3. The weight of Mr. and Mrs. Stevens together with their son Matthew is 184 kilograms. Mr. Jackson weighs 78 kg and Mrs. Jackson is 6 kg lighter than him. What is the Matthew's weight?



4. Julie used 87 grams of chocolate powder and 54 grams of sugar to make 3 servings of cold chocolate drinks. How many grams of chocolate powder and sugar (altogether) are needed to make 1 serving of cold chocolate drink?

5. A renovation company ordered sacks of cement and sand from a construction supplier. 325 kg, 400 g of cement and 78 kg of sand had already been delivered, and they are still waiting for the other 215 kg 600 g of cement from the supplier. How many kilograms of cement did the company order altogether?

6. The weight of a cellphone is 130 grams, and a tablet is 65 grams heavier than the cellphone. The weight of a laptop is 1 kg 150 g. Which is heavier, 5 cellphones or 1 laptop? By how many grams?

Answers

1. $600 \times 4 = 2,400 \text{ g}$
 $2,400 \text{ g} + 1,250 \text{ g} = 3,650 \text{ g} = 3 \text{ kgs } 650 \text{ g}$
Camille has to carry 3 kg 650 g.
2. $4 \times 10.5 \text{ kg} = 42 \text{ kg}$
Chef Teri ordered 42 kg of skim milk.
3. Mrs. Jackson: $78 - 6 = 72$
Matthew: $184 - 78 - 72 = 34$
Matthew weighs 34 kg.
4. $87 \div 3 = 29$
 $54 \div 3 = 18$
 $29 + 18 = 47$
Altogether, 47 grams of chocolate powder and sugar are needed to make 1 serving.
5. $325 \text{ kg } 400 \text{ g} + 215 \text{ kg } 600 \text{ g} = 540 \text{ kg } 1000 \text{ g} = 541$
The company ordered 541 kg of cement.
6. Cellphone: $130 \times 5 = 650 \text{ g}$
Laptop: $1 \text{ kg } 150 \text{ g} = 1,150 \text{ g}$
 $1,150 \text{ g} - 650 \text{ g} = 500 \text{ g}$
The laptop is 500 g heavier than the 5 cellphones.