Measuring Weight in the Metric System

Units of weight in the metric system

1 kg = 1,000 g

kilogram	**kg**	to measure heavy things; kilo = 1,000
hectogram	hg	(not used); hecto = 100
decagram	dcg	(not used); deca = 10
gram	**g**	to measure light things
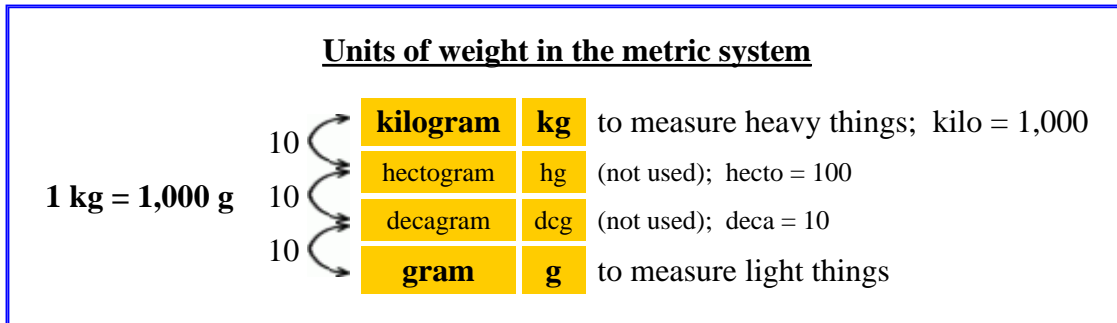
1. Fill in the table.

kilograms	2	2 1/2	3 1/2			10	
grams				7,000	9,500		20,000

2. Convert.

a. 5 kg 400 g = _____ g

32 kg 40 g = _____ g

b. 2,500 g = ___ kg _____ g

20,050 g = ___ kg _____ g

c. 60 kg = _____ g

8 1/2 kg = _____ g

When some weights are given in kilograms and some in grams, you can change them all to grams first.

5 kg + 3 kg 650 g + 490 g

= 5,000 g + 3,650 g + 490 g

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  5 0 0 0
  3 6 5 0
+   4 9 0
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  9 1 4 0
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Answer: 9,140 g
or 9 kg 140 g

You can also add kilograms to kilograms and grams to grams. Remember that 1,000 grams makes a kilogram.

4 kg 250 g + 5 kg 800 g

= 9 kg 1,050 g = 10 kg 50 g

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3. **a.** Jeremy received in the mail packages that weighed 700 g, 350 g, 4 kg 400 g, and 1 kg 900 g. What was the total weight of the packages?

b. Angi bought three 1 1/2 kg packages and seven 400-gram packages of buckwheat flour. How much did all the flour weigh?

c. You need 2 kg of flour to make bread. The scale shows you already have 1,050 g. How many more grams of flour do you need more?

d. A 200-gram bag of millet costs $1.69. How many bags do you need for 1 kg of millet? What is the total cost?