

Name _____

period _____

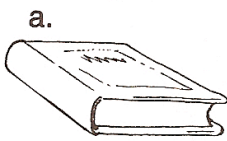
Science Skills-8

Metric Conversion 2

Weight is how heavy an object is. The basic unit of weight in the metric system is the **gram**. A raisin weighs about one gram. The metric prefixes can be added to the word *gram* for the measurement of lighter and heavier objects. Use the following chart to complete the activities below about metric weight.

kilogram (kg)	hectogram (hg)	dekagram (dkg)	gram (g)	decigram (dg)	centigram (cg)	milligram (mg)
1000 g	100 g	10 g	1 g	.1 g	.01 g	.001 g

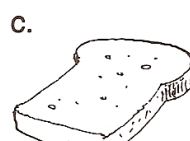
1. The weights of the following objects are given in grams. Change the measurements to kilograms.



1000 g
_____kg



6000 g
_____kg

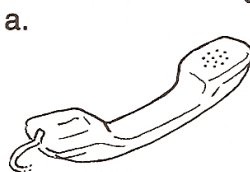


52 g
_____kg



750 g
_____kg

2. The weights of the following objects are given in kilograms. Change the measurements to grams.



.39 kg
_____g



1.4 kg
_____g



.268 kg
_____g



5.07 kg
_____g

3. A baby weighs about 3 kilograms. How many grams is this? _____
4. An average man weighs about 25 times as much as a baby. About how many kilograms does a man weigh? _____
5. There are about 95 milligrams of salt in a cup of flavored yogurt. How many centigrams of salt is this? _____ How many grams of salt is this?

Volume is the amount of space an object, liquid, or gas takes up, or the amount that a container can hold. The basic unit of volume measure in the metric system is the **liter**. A large soda bottle holds two liters. The metric prefixes can be added to the word *liter* for the measurement of volumes smaller and larger than a liter. Use the following chart to complete the activities below about metric volume.

kiloliter (kl)	hectoliter (hl)	dekaliter (dkl)	liter (l)	deciliter (dl)	centiliter (cl)	milliliter (ml)
1000 l	100 l	10 l	1 l	.1 l	.01 l	.001 l

1. The following volumes are given in milliliters. Change the measurements to liters.

a.



1278 ml

_____ l

b.



461 ml

_____ l

c.

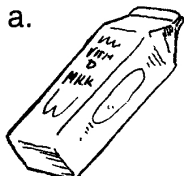


359 ml

_____ l

2. The following volumes are given in liters. Change the measurements to milliliters.

a.



.946 l

_____ ml

b.



2 l

_____ ml

c.



3.59 l

_____ ml

3. One milliliter is about 2 drops of water. If a container holds 500 drops of water, about how many milliliters does it hold? _____ How many liters does it hold? _____

4. How many 2-liter bottles of soda would you need for a party if you needed 30 dekaliters? _____

5. How many centiliters are in a hectoliter? _____

