

# Metric System Prefixes

1. Fill in the missing entries from this table.

Prefix	Meaning	Units - length	Units - mass	Units - volume
milli-	thousandth = 0.001	millimeter (mm)		
			centigram (cg)	
deci-				deciliter (dl)
-	-	meter (m)		
	ten = 10		decagram (dag)	
				hectoliter (hl)
	thousand = 1000			

2. Write using correct units with prefixes.

- |                               |                         |
|-------------------------------|-------------------------|
| a. 4 thousandth meters = 4 mm | b. 7 hundredth meters   |
| c. 4 tenth meters             | d. 5 thousand grams     |
| e. 32 hundredth liters        | f. 708 thousandth grams |
| g. 143 thousand meters        | h. 5 hundred liters     |
| i. 7 tenth liters             | j. 90 hundredth meters  |

3. Change into the basic unit (either meter, liter, or gram). Think of the meaning of the prefix.

- |   |           |
|---|-----------|
| a. 45 cm = 45 hundredth meters = 0.45 m | b. 2 ml   |
| c. 75 mg                                | d. 450 ml |
| e. 6 dm                                 | f. 7 km   |
| g. 34 cl                                | h. 45 kg  |
| i. 9 cm                                 | j. 16 mm  |
| k. 62 hl                                | l. 9 dl   |

4. Change from the basic unit to the given unit.

	1 m	5 m	145 m	0.1 m	0.45 m	0.9 m	0.06 m	1.5 m	2.34 m
dm									
cm									
mm									

5. Change kilometers to meters.

km	3.4 km	4.62 km	0.309 km	0.73 km	0.05 km	0.028 km	0.3 km
m							