

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 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							