



## Chem Skills Worksheet #5: Metric Conversions

### Metric Conversions

Scientific Notation	Full Number	Words	SI Prefix	SI Symbol
$1 \times 10^{12}$	1,000,000,000,000	trillion	tera-	T
$1 \times 10^9$	1,000,000,000	Billion	giga-	G
$1 \times 10^6$	1,000,000	Million	mega-	M
$1 \times 10^3$	1,000	Thousand	kilo-	k
$1 \times 10^2$	100	Hundred	hecto-	h
$1 \times 10^1$	10	Ten	deca-	da
$1 \times 10^0$	1	One		
$1 \times 10^{-1}$	0.1	Tenth	deci-	d
$1 \times 10^{-2}$	0.01	Hundredth	centi-	c
$1 \times 10^{-3}$	0.001	Thousandth	milli-	m
$1 \times 10^{-6}$	0.000001	Millionth	micro-	$\mu$
$1 \times 10^{-9}$	0.000000001	Billionth	nano-	n
$1 \times 10^{-12}$	0.000000000001	trillionth	pico-	p

**Directions :** Write the equivalent measure for the problem.

1. 40 ml = \_\_\_\_\_ L
  2. 5000 L = \_\_\_\_\_ kl
  3. 4000g = \_\_\_\_\_ kg
  4. 8 g = \_\_\_\_\_ kg
  5. 12000 L = \_\_\_\_\_ kl
  6. 50 mg = \_\_\_\_\_ g
  7. 6000 m = \_\_\_\_\_ km
  8. 200 kg = \_\_\_\_\_ g
  9. 10000 g = \_\_\_\_\_ kg
  10. 500 ml = \_\_\_\_\_ L
  11. 1 L = \_\_\_\_\_ mL
  12. 4000 L = \_\_\_\_\_ kL
  13. 400 cm = \_\_\_\_\_ m
  14. 20 ml = \_\_\_\_\_ kL
  15. 7000 ml = \_\_\_\_\_ L
  16. 7 cm = \_\_\_\_\_ mm
  17. 9000 L = \_\_\_\_\_ mL

18. 6 m = \_\_\_\_\_ mm
  19. 1000 cm = \_\_\_\_\_ m
  20. 11 km = \_\_\_\_\_ m
  21. 80 mg = \_\_\_\_\_ kg
  22. 3 m = \_\_\_\_\_ mm
  23. 470 ml = \_\_\_\_\_ L
  24. 2000 L = \_\_\_\_\_ kL
  25. 83 g = \_\_\_\_\_ kg
  26. 41300 L = \_\_\_\_\_ kL
  27. 5340 mg = \_\_\_\_\_ g
  28. 2000 m = \_\_\_\_\_ km
  29. 13200 kg = \_\_\_\_\_ g
  30. 1000000 g = \_\_\_\_\_ kg
  31. 320 ml = \_\_\_\_\_ L
  32. 12 L = \_\_\_\_\_ mL
  33. 800 L = \_\_\_\_\_ kL
  34. 250 cm = \_\_\_\_\_ m