



Chem Skills Worksheet #5: Metric Conversions

Metric Conversions

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

Directions : Write the equivalent measure for the problem.

- | | |
|---|--|
| 1. 40 ml = <u>.040</u> L
2. 5000 L = _____ kL
3. 4000g = <u>4</u> kg
4. 8 g = _____ kg
5. 12000 L = <u>12</u> kL
6. 50 mg = _____ g
7. 6000 m = <u>6</u> km
8. 200 kg = _____ g
9. 10000 g = <u>10</u> kg
10. 500 ml = _____ L
11. 1 L = <u>1000</u> mL
12. 4000 L = _____ kL
13. 400 cm = <u>4</u> m
14. 20 ml = _____ kL
15. 7000 ml = <u>7</u> L
16. 7 cm = _____ mm
17. 9000 L = <u>9×10^6</u> mL | 18. 6 m = _____ mm
19. 1000 cm = <u>10</u> m
20. 11 km = _____ m
21. 80 mg = <u>.0000008</u> kg
22. 3 m = _____ mm
23. 470 ml = <u>.470</u> L
24. 2000 L = _____ kL
25. 83 g = <u>.083</u> kg
26. 41300 L = _____ kL
27. 5340 mg = <u>5340000</u> g
28. 2000 m = _____ km
29. 13200 kg = <u>13200000</u> g
30. 1000000 g = _____ kg
31. 320 ml = <u>.320</u> L
32. 12 L = _____ mL
33. 800 L = <u>.8</u> kL
34. 250 cm = _____ m |
|---|--|

Name _____

Date _____

Period _____