

METRIC CONVERSIONS

V. Fill in the blanks with the correct metric equivalent.

- | | | |
|---------------------|----------------------|----------------------|
| 1. 1000 g = 1 _____ | 4. 10 g = 1 _____ | 7. 10.0 m = 1 _____ |
| 2. 0.1 g = 1 _____ | 5. 0.001 g = 1 _____ | 8. 1000 m = 1 _____ |
| 3. 100 g = 1 _____ | 6. 0.01 g = 1 _____ | 9. 0.001 m = 1 _____ |

VI. Convert the following metric numbers. (Remember: DO NOT drop final zeroes from your numbers.)

- | | |
|-------------------------------------|------------------------------------|
| 10. 20 mg = _____ g | 23. 0.89 mm = _____ m |
| 11. 23,456 g = _____ kg | 24. 0.005 m = _____ mm |
| 12. 14 g = _____ cg | 25. 1.14 L = _____ cm ³ |
| 13. 2.3 mg = _____ g | 26. 15 mL = _____ cm ³ |
| 14. 70 cg = _____ g | 27. 1.40 cL = _____ cc |
| 15. 45 g = _____ mg | 28. 0.015 hL = _____ L |
| 16. 2.6 kg = _____ g | 29. 8.2 mL = _____ L |
| 17. 0.5 g = _____ dg | 30. 2,000 kg = _____ g |
| 18. 0.004 kg = _____ g | 31. 0.053 g = _____ mg |
| 19. 1×10^3 m = _____ km | 32. 0.0512 cg = _____ kg |
| 20. 1×10^{-3} m = _____ mm | 33. 101.53 cg = _____ g |
| 21. 55 m = _____ cm | 34. 540,000 mg = _____ g |
| 22. 4.5 cm = _____ mm | 35. 45,000 cm = _____ km |

VII. Solve the following equations. Be sure to convert all units to the same base! Show your work.

36. $16 \text{ g} - 50 \text{ mg} =$ _____ g
37. $0.017 \text{ L} - 17 \text{ mL} =$ _____ mL
38. $320 \text{ mm} + 5.4 \text{ cm} + 1.689 \text{ m} =$ _____ m
39. $53 \text{ cm} + 3 \text{ m} =$ _____ mm
40. $0.054 \text{ g} - 54 \text{ mg} =$ _____ g