

The Metric System  
Practice Problems

Name \_\_\_\_\_  
Period \_\_\_\_\_  
Date \_\_\_\_\_

**Convert the following measurements to the equivalent unit indicated**

**Level 1**

- |                                        |                                          |
|----------------------------------------|------------------------------------------|
| 1. 100 cm $\rightarrow$ _____ m        | 9. 0.055 s $\rightarrow$ _____ $\mu$ s   |
| 2. 0.001 m $\rightarrow$ _____ mm      | 10. 32.9 g $\rightarrow$ _____ cg        |
| 3. 10 L $\rightarrow$ _____ mL         | 11. 553.2 cm $\rightarrow$ _____ m       |
| 4. 1000 g $\rightarrow$ _____ Kg       | 12. 396.77 $\mu$ s $\rightarrow$ _____ s |
| 5. 0.001 s $\rightarrow$ _____ $\mu$ s | 13. 0.049 L $\rightarrow$ _____ mL       |
| 6. 10 cm $\rightarrow$ _____ m         | 14. 8.026 m $\rightarrow$ _____ $\mu$ m  |
| 7. 75 mL $\rightarrow$ _____ L         | 15. 0.00805 kg $\rightarrow$ _____ g     |
| 8. 342 mg $\rightarrow$ _____ g        |                                          |

**Level 2**

- |                                        |                                                   |
|----------------------------------------|---------------------------------------------------|
| 1. 50 cm $\rightarrow$ _____ mm        | 11. 264.77 nm $\rightarrow$ _____ cm              |
| 2. 25 mg $\rightarrow$ _____ cg        | 12. 0.0489 $\mu$ L $\rightarrow$ _____ mL         |
| 3. 36 mL $\rightarrow$ _____ dL        | 13. 1.0194 dm $\rightarrow$ _____ mm              |
| 4. 89 cg $\rightarrow$ _____ mg        | 14. 0.00804 cm $\rightarrow$ _____ mm             |
| 5. 35.8 hg $\rightarrow$ _____ kg      | 15. 37.84 mg $\rightarrow$ _____ cg               |
| 6. 22.9 mL $\rightarrow$ _____ $\mu$ L | 16. $1.0 \times 10^{-4}$ g $\rightarrow$ _____ mg |
| 7. 60.3 dg $\rightarrow$ _____ cg      | 17. $5.0 \times 10^3$ mm $\rightarrow$ _____ cm   |
| 8. 0.866 km $\rightarrow$ _____ hm     | 18. $2.35 \times 10^2$ m $\rightarrow$ _____ km   |
| 9. 82.5 cL $\rightarrow$ _____ mL      | 19. $0.588 \times 10^3$ mg $\rightarrow$ _____ g  |
| 10. 0.8209 cg $\rightarrow$ _____ mg   | 20. $7.755 \times 10^3$ g $\rightarrow$ _____ mg  |