

Student Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

**Activity**  
**Metric Conversions Drill**

For each of the following values, convert each of them to all of the other units listed on the Metric Conversions Chart that you already have been given. Maintain significant figures and use scientific notation for any number whose power of 10 would be in excess of 3 or -3.

- |                                      |                                      |
|--------------------------------------|--------------------------------------|
| 1. 24 kilograms                      | 21. 624 dekagrams                    |
| 2. 245 centigrams                    | 22. $4.15 \times 10^{-4}$ kilograms  |
| 3. 18.2 centimeters                  | 23. 0.237 meters                     |
| 4. .3456 hectometers                 | 24. .09 millimeters                  |
| 5. 0.27 mL                           | 25. 0.64 kiloliters                  |
| 6. 24565.4 cL                        | 26. 2001 deciliters                  |
| 7. 8.42 dekagrams                    | 27. 3.547 hectograms                 |
| 8. 34 decigrams                      | 28. $6.02 \times 10^{23}$ centigrams |
| 9. 7 decimeters                      | 29. 0.00005 centimeters              |
| 10. 30000 hectometers                | 30. 400 meters                       |
| 11. 91 terajoules                    | 31. 234.5 centiliters                |
| 12. 371.5 hectojoules                | 32. 0.987001 hectoliters             |
| 13. 36 mg                            | 33. 20000 cm                         |
| 14. 0.00987 dag                      | 34. .005600 dm                       |
| 15. 246 centiliters                  | 35. 0.5 mL                           |
| 16. 876.4 liters                     | 36. $2.32 \times 10^{-1}$ hL         |
| 17. 84.72 hectograms                 | 37. 2.1 centimeters                  |
| 18. 100000 grams                     | 38. $7.0 \times 10^0$ meters         |
| 19. 914.2 deciliters                 | 39. 123.45 dag                       |
| 20. $2.4 \times 10^{11}$ milliliters | 40. 2205.00 kg                       |