

CP Chemistry

Metric - Metric Conversions

Instructions: complete each of the following conversions.

1. 24.6 mL = 0.0246 L
2. 45,600 L = 45.6 kL
3. 125 kg = 125,000 g
4. 2.3 L = 2300 mL
5. 34 mL = 0.034 L
6. 550 L = 550,000 mL
7. 67 km = 67,000 m
8. 4,980 L = 4.98 kL
9. 84 mg = 0.084 g
10. 42,000 g = 42 kg
11. 2,300 L = 2.3 kL
12. 6,500 mL = 6.5 L
13. 98 m = 98,000 mm
14. 65 mg = 0.065 kg
15. 4 g = 0.004 kg
16. 3,700 m = 3.7 km
17. 300 mL = 0.3 L
18. 250 cm = 2.5 m
19. 9 cm = 90 mm
20. 1,200 cm = 12 m
21. 7.5 m = 7,500 mm

Instructions: circle the greatest metric measurement in each problem.

1. 0.3 L; 320 mL; 40 cL
2. 300 cm; 4000 mm; 2.0 m
3. 5 L; 4000 mL; 62.5 dL
4. 3,400 mg; 2.8 g; 50 cg; 1.5 dg; 0.0033 kg
5. 43,000 m; 4,300,000 mm; 43,000,000 cm
6. 4,000 cg; 45,000 mg; 0.043 kg
7. 8,400 cg; 0.84 kg; 8,600,000 mg
8. 91 L; 0.088 kL; 90,000 mL

Instructions: circle the smallest metric measurement in each problem.

1. 14 L; 0.0067 kL; 32,500 mL
2. 5,300 cg; 0.052 kg; 51,000 mg
3. 5 g; 1.0 cg; 0.0051 kg; 5,200 mg
4. 67 m; 35,000 cm; 3,680 mm; 780 dm
5. 76 L; 4,345 mL; 34,500 cL
6. 6,000 mg; 437 cg; 0.005 kg
7. 0.003 L; 539 mL; 48 cL
8. 400 cm; 5,000 mm; 3 m

Instructions: answer each of the following word problems.

1. The length 52.2 mm can also be expressed as 5.22 cm.
2. Which metric system unit is most appropriate for measuring the distance between two cities? A. meters B. millimeters C. centimeters D. kilometers