

Use dimensional analysis to convert each of the following measurements to its equivalent in the units given.

1. 73 g to milligrams
2. 0.52 μg to kilograms
3. 15.4 mg to centigrams
4. 0.041 g to micrograms
5. 72.0 km to millimeters
6. 2.0×10^4 mm to centimeters
7. 2.8×10^8 μg to kilograms
8. 4.2 km^3 to cubic decimeters
9. 250 cm^3 to cubic meters
10. 0.416 mm^3 to cubic decimeters
11. 4.28×10^5 pg to nanograms
12. 18.5 km/hr to m/sec
13. 5.6×10^5 mm/s to km/hr
14. 4.86×10^4 g/cm² to kg/m²
15. 3.00×10^8 m/s to miles/hr

Identify the number of significant figures in the following measurements.

16. 1.350×10^6 g
17. 0.00000030020 mm
18. 100 cm
19. 8 eggs
20. 0.0010 cm