



Dimensional Analysis

Name _____

Date _____

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

- 14 cm to meters
- 31 g to milligrams
- 116.5 m to kilometers
- 285.9 cm to kilometers
- 0.006 394 km to centimeters
- 8.4×10^{-6} kg to centigrams
- 1.47×10^5 mm to kilometers
- 4.7 kg to centigrams
- 138.4 mg to grams
- 65.5 km to meters
- 23.6 dm to centimeters
- 2.36×10^4 s to days
- 13.6 dm^3 to cubic centimeters
- 20.6 km/hr to meters per second
- 0.058 m/s to centimeters per second
- 3.49 km/hr to meters per second
- 14.7 g/cm^3 to centigrams per cubic millimeter
- $7.3 \times 10^{-4} \text{ cm}^3/\text{s}$ to cubic centimeters per day
- $8.05 \times 10^5 \text{ g/cm}^3$ to kilograms per dm^3
- $3.42 \times 10^3 \text{ kg/m}^2$ to grams per square centimeter
- 5.1 m/s to Km/hr