

SAMPLE 1

How many significant figures does 0.007 09 kg have?

All nonzero digits are significant. The zero between the 7 and 9 is significant. The zeros to the left of the decimal point are not significant. The quantity 0.007 09 kg has 3 significant figures.

SAMPLE 2

Divide 79.7 g by 0.89 cm³.

The quantity 79.7 g has 3 significant figures, but 0.89 cm³ has only 2 significant figures. So, the product 8.955 056 18 g/cm³ must be rounded to 2 significant figures. The rounded quantity is 9.0 g/cm³.

SAMPLE PROBLEM A

A sample of aluminum metal has a mass of 8.4 g. The volume of the sample is 3.1 cm³. Calculate the density of aluminum.

SOLUTION

Given: mass (m) = 8.4 g
volume (V) = 3.1 cm³
Unknown: density (D)

$$\text{density} = \frac{\text{mass}}{\text{volume}} = \frac{8.4 \text{ g}}{3.1 \text{ cm}^3} = 2.7 \text{ g/cm}^3$$

SAMPLE PROBLEM B

Express a mass of 5.712 grams in milligrams and in kilograms.

SOLUTION

Given: 5.712 g
Unknown: mass in mg and kg

The expression that relates grams to milligrams is

$$1 \text{ g} = 1000 \text{ mg}$$

The possible conversion factors that can be written from this expression are

$$\frac{1000 \text{ mg}}{\text{g}} \text{ and } \frac{1 \text{ g}}{1000 \text{ mg}}$$

To derive an answer in mg, you'll need to multiply 5.712 g by 1000 mg/g.

$$5.712 \text{ g} \times \frac{1000 \text{ mg}}{\text{g}} = 5712 \text{ mg}$$

This answer makes sense because milligrams is a smaller unit than grams and, therefore, there should be more of them.

The kilogram problem is solved similarly.

$$1 \text{ kg} = 1000 \text{ g}$$

Conversion factors representing this expression are

$$\frac{1 \text{ kg}}{1000 \text{ g}} \text{ and } \frac{1000 \text{ g}}{\text{kg}}$$

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P.G. Sly



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Modern American Political Dynasties Kathleen Gronnerud, Scott J. Spitzer, 2018-10-18 This collection offers a front seat view of the rise reign and fall of powerful modern political families and examines the effects they have had on political social and economic issues in American society *Modern American Political Dynasties A Study of Power Family and Political Influence* is a unique research resource and fascinating read that explores the dynamics and modern America's most influential political families It provides a thorough study of approximately 20 of the best known surnames in 20th century American politics More than just a biography it highlights how these families dynamics have influenced political practice and thought providing a holistic context for the evolution of political dynasties in the United States The text includes a historically grounded examination of the crossroads of family and politics as it charts the origins development peak strength and decline of each family It is the only published volume to include biographical and contextual information on major political dynasties in addition to fascinating research on high profile personalities

Chemistry: Core Concepts, 3rd Edition Allan Blackman, Daniel Southam, Gwendolyn Lawrie, Natalie Williamson, Christopher Thompson, 2024-01-09 The third edition of *Chemistry Core Concepts* Blackman et al has been developed by a group of leading chemistry educators for students entering university with little or no background in chemistry Available as a full colour printed textbook with an interactive eBook code this title enables every student to master concepts and succeed in assessment Lecturers are supported with an extensive and easy to use teaching and learning package

Journal of Education and School World, 1896 Soviet Union, 1964
The Sanitary Era, 1886 **Computational Chemistry** Philippe G. Ciarlet, Jacques-Louis Lions, 1990 Aiming to provide the reader with a general overview of the mathematical and numerical techniques used for the simulation of matter at the microscopic scale this book lays the emphasis on the numerics but modelling aspects are also addressed The contributors come from different scientific communities physics theoretical chemistry mathematical analysis stochastic analysis numerical analysis and the text should be suitable for graduate students in mathematics sciences and engineering and technology

Instructor, 1988 *The Manufacturer and Builder* Peter Henri Van der Weyde, William Henry Wahl, 1878 Billed in early issues as a practical journal of industrial progress this monthly covers a broad range of topics in engineering manufacturing mechanics architecture building etc Later issues say it is devoted to the advancement and diffusion of practical knowledge

The Journal of the Institution of Engineers, Australia Institution of Engineers Australia, 1957

Sediment/Freshwater Interactions P.G. Sly, 2012-12-06 Proceedings of the Second International Sediment Freshwater Symposium held in Kingston Ontario June 15 18 1981

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