

Density Practice Problems Worksheet #2

Answer Key

1. You have a rock with a volume of 15cm³ and a mass of 45 g. What is its density?

Density = m/v

Density = 45g/15cm³

Density = 3.0g/cm³

2. You have a different rock with a volume of 30cm³ and a mass of 60g. What is its density?

Density = m/v

Density = 60g/30cm³

Density = 2.0g/cm³

3. In the above two examples which rock is more dense? Why?

Rock sample #1, because it has a density of 3.0g/cm³, which is greater than rock sample #2's density of 2.0g/cm³

4. Calculate the mass of a liquid with a density of 3.2 g/mL and a volume of 25 mL.

Mass = D x V

Mass = 3.2g/mL x 25 mL

Mass = 80.0 g

5. Calculate the density of a 500g rectangular block with the following dimensions: length=8 cm, width=6 cm, height=5 cm.

Density = m/v

Density = 500g/240cm³ (8cm x 6cm x 5cm)

Density = 2.083, rounded to nearest tenth = 2.1 g/cm³

6. Calculate the mass of a solid metal block with a density of 2.6 g/cm³, a width of 1.8 cm, a length of 4 cm, and a height of 2.3 cm.

Mass = D x V

Mass = 2.6g/cm³ x (1.8cm x 4cm x 2.3 cm)

Mass = 2.6g/cm³ x 16.56cm³

Mass = 43.056g - rounded to nearest tenth = 43.1 g

Answers To Stryer Problems

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Answers To Stryer Problems:

Biochemistry, a Problems Approach William Barry Wood,1981 ***Biolinguistics*** Lyle Jenkins,2000 This book investigates the nature of human language and its importance for the study of the mind In particular it examines current work on the biology of language Lyle Jenkins reviews the evidence that language is best characterized by a generative grammar of the kind introduced by Noam Chomsky in the 1950s and developed in various directions since that time He then discusses research into the development of language which tries to capture both the underlying universality of human language as well as the diversity found in individual languages Universal Grammar Finally he discusses a variety of approaches to language design and the evolution of language An important theme is the integration of biolinguistics into the natural sciences the unification problem Jenkins also answers criticisms of the biolinguistic approach from a number of other perspectives including evolutionary psychology cognitive science connectionism and ape language research among others

Fundamentals of Biochemical Calculations Krish Moorthy,2007-11-30 Fundamentals of Biochemical Calculations Second Edition demystifies the fundamental calculations used in modern biochemistry cell biology and allied biomedical sciences The book encourages both undergraduates and scientists to develop an understanding of the processes involved in performing biochemical calculations rather than rely on mem

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Tymoczko,Lubert Stryer,2002-02-15 This book is an outgrowth of my teaching of biochemistry to undergraduates graduate students and medical students at Yale and Stanford My aim is to provide an introduction to the principles of biochemistry that gives the reader a command of its concepts and language I also seek to give an appreciation of the process of discovery in biochemistry

Medical Informatics G. Wiederhold,Edward H. Shortliffe,L.M. Fagan,Leslie E. Perreault,2013-11-11 This series is directed to healthcare professionals who are leading the transformation of health care by using information and knowledge Launched in 1988 as Computers in Health Care the series offers a broad range of titles some addressed to specific professions such as nursing medicine and health administration others to special areas of practice such as trauma and radiology Still other books in the series focus on interdisciplinary issues such as the computer based patient record electronic health records and networked healthcare systems Renamed Health Informatics in 1998 to reflect the rapid evolution in the discipline now known as health informatics the series continues to add titles that contribute to the evolution of the field In the series eminent experts serving as editors or authors offer their accounts of innovations in health informatics Increasingly these accounts go beyond hardware and software to address the role of information in influencing the transformation of healthcare delivery systems around the world The series also increasingly focuses on peopleware and the organizational behavioral and societal changes that accompany the diffusion of information technology in health services

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