

## Density Practice Problems Worksheet #2

### Answer Key

1. You have a rock with a volume of  $15\text{cm}^3$  and a mass of 45 g. What is its density?

$$\text{Density} = m/v$$

$$\text{Density} = 45\text{g}/15\text{cm}^3$$

$$\text{Density} = 3.0\text{g}/\text{cm}^3$$

2. You have a different rock with a volume of  $30\text{cm}^3$  and a mass of 60g. What is its density?

$$\text{Density} = m/v$$

$$\text{Density} = 60\text{g}/30\text{cm}^3$$

$$\text{Density} = 2.0\text{g}/\text{cm}^3$$

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

Rock sample #1, because it has a density of  $3.0\text{g}/\text{cm}^3$ , which is greater than rock sample #2's density of  $2.0\text{g}/\text{cm}^3$

4. Calculate the mass of a liquid with a density of  $3.2\text{ g/mL}$  and a volume of 25 mL.

$$\text{Mass} = D \times V$$

$$\text{Mass} = 3.2\text{g/mL} \times 25\text{ mL}$$

$$\text{Mass} = 80.0\text{ g}$$

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

$$\text{Density} = m/v$$

$$\text{Density} = 500\text{g}/240\text{cm}^3 (8\text{cm} \times 6\text{cm} \times 5\text{cm})$$

$$\text{Density} = 2.083, \text{ rounded to nearest tenth} = 2.1\text{ g}/\text{cm}^3$$

6. Calculate the mass of a solid metal block with a density of  $2.6\text{ g}/\text{cm}^3$ , a width of 1.8 cm, a length of 4 cm, and a height of 2.3 cm.

$$\text{Mass} = D \times V$$

$$\text{Mass} = 2.6\text{g}/\text{cm}^3 \times (1.8\text{cm} \times 4\text{cm} \times 2.3\text{ cm})$$

$$\text{Mass} = 2.6\text{g}/\text{cm}^3 \times 16.56\text{cm}^3$$

$$\text{Mass} = 43.056\text{g} - \text{rounded to nearest tenth} = 43.1\text{ g}$$

# Answers To Stryer Problems

**Jiyuan Zhang**



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**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 memory.      **Appleton & Lange's Review for National Boards Part I** Michael Caplan, 1990      **Biochemistry** Francis J. Chlapowski, 1991      **Electron Paramagnetic Resonance with Applications to Selected Problems in Biology** George Feher, 1970      Biochemistry, Fifth Edition Jeremy M. Berg, John L. 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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