

Density Practice Problems Worksheet #2

Answer Key

1. You have a rock with a volume of 15cm^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 30cm^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 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.

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

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

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

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

Density Word Problems With Answers

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A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the text box.

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Zegarelli,2021-11-09 Go into the SAT relaxed and confident by preparing with this straightforward and practical math resource A great math score on the SAT can unlock countless opportunities especially in the STEM fields With the help of *SAT Math For Dummies* you ll have what it takes to succeed on this challenging section of the exam This helpful guide offers the tools and techniques you need to hone your strengths eliminate your weaknesses and walk into the testing room poised and prepared to conquer the math section of the SAT You ll learn to tackle basic and advanced algebra geometry and trigonometry with and without a calculator just like you ll need to do on the test The book also offers intuitive reviews of critical math concepts and skills like evaluating simplifying and factoring algebra expressions while preparing you for common pitfalls and traps that ensnare less prepared students This up to date resource will help you Reduce test anxiety and stress by preparing with resources that mirror the tasks you ll have to perform on test day Master the time management and other test taking strategies you ll need to get the results you want Prove you re ready for the test by practicing with online resources that include three complete practice tests Effective practice and preparation are the keys to succeeding on the math section of the SAT And with *SAT Math For Dummies* in your arsenal you ll have the strategies knowledge and skills that make extraordinary results possible *Prentice Hall Science Explorer: Teacher's ed* ,2005 *Solving Math Problems* Field Stone Publishers,2008 *Nibble* ,1987 **Thinking Physics for Teaching** C. Bernardini,C. Tarsitani,M.

Vicentini,2012-12-06 The research in Physics Education has to do with the search of solutions to the complex problem of how

to improve the learning and teaching of physics The complexity of the problem lies in the different fields of knowledge that need to be considered in the research In fact besides the disciplinary knowledge in physics which must be considered from the conceptual the historical and the epistemological framework one has to take into account some basic knowledge in the context of psychology and the cognitive sciences for the general and contextual aspects of learning and some basic knowledge in education and communication for what concerns teaching skills and strategies Looking back at the historical development of the research one may recognize that the complexity of the endeavour was not clear at first but became clear in its development which shifted the focus of the research in the course of time from physics to learning to teaching We may say that the research started more than 30 years ago with a focus on disciplinary knowledge Physicists in different parts of the western world after research work in some field of physics decided to concentrate on the didactical communication of physical knowledge

Computability and Complexity Adam Day, Michael Fellows, Noam Greenberg, Bakhadyr Khoussainov, Alexander Melnikov, Frances Rosamond, 2016-11-30 This Festschrift is published in honor of Rodney G Downey eminent logician and computer scientist surfer and Scottish country dancer on the occasion of his 60th birthday The Festschrift contains papers and laudations that showcase the broad and important scientific leadership and mentoring contributions made by Rod during his distinguished career The volume contains 42 papers presenting original unpublished research or expository and survey results in Turing degrees computably enumerable sets computable algebra computable model theory algorithmic randomness reverse mathematics and parameterized complexity all areas in which Rod Downey has had significant interests and influence The volume contains several surveys that make the various areas accessible to non specialists while also including some proofs that illustrate the flavor of the fields

College Reading and Study Skills Nancy V. Wood, 1991

Understanding Chemistry Fred M. Dewey, 1994

Teaching Children Mathematics, 1999

Practice and Learn RICE/HILL, Teacher Created Materials, Inc, 2004-11-09

New Scientist, 1969

Science--children;

Readings in Elementary Science Education Ronald G. Good, 1972

Programmed Problem-solving for First-year Chemistry Arnold B. Loebel, 1983

Industrial Chemical Process Design, 2nd Edition Douglas Erwin, 2014 Written by a hands on industry consultant and featuring more than 200 illustrations

Traffic World's Questions and Answers Book Traffic Service Corporation, 1970

New Scientist, 2001

Algebra and Geometry Jerry Howett, 1996

Meteorology for Scientists and Engineers Roland B. Stull, 2000 P 14

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