

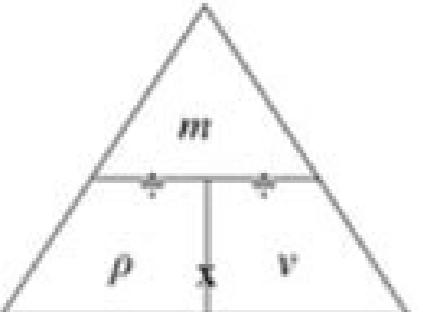
Density equation practice worksheet answers

Name: _____

Date: _____

Calculating Density Practice Problems

Use the following diagram to help you answer the questions below.

Where m = mass ρ = density v = volume

Hint: Using the diagram above, put your finger over the one you want to find out and you will see how to work out the question.

1. A student measures the mass of an 8cm^3 block of brown sugar to be 32g . What is the density of the brown sugar? (3 marks)
2. A chef fills 50 cm^3 container with 250 g of cooking oil. What is the density of the oil? (3 marks)
3. A piece of cork has a mass of 24g and a density of 6g/cm^3 . What is the volume of the piece of cork? (3 marks)
4. A carver begins work on a block of granite that has a volume of 1000 cm^3 and a density of 5 g/cm^3 . What is the mass of the block of granite? (3 marks)
5. A box has a volume of 55 cm^3 and a density of 5g/cm^3 . What is the mass of the box? (3 marks)
6. A wooden cylinder has a density of 4 g/cm^3 and a mass of 48 cm^3 . What is the volume of the wooden cylinder? (3 marks)
7. A wooden block has a volume of 12 cm^3 and a density of 3 g/cm^3 . What is the mass of the wooden block? (3 marks)
8. An ice block measuring 5cm by 5 cm by 5cm has a density of 5g/cm^3 . What is the mass of the ice block? (4 marks)

TOTAL 25 marks

DATE	NAME	CLASS
CHAPTER 5	REINFORCEMENT	BLM 5.G

Comparing Densities
Additional Questions

Goal • Use this page to compare the densities of different substances.

What to Do

• Use the information in the table to answer the following questions.

1. You drop three things into a glass of water: a piece of styrofoam, a piece of oak, and a gold ring. Which will float? Which will sink?

2. Which is more dense:

- (a) carbon dioxide or air?
- (b) oxygen or air?
- (c) hydrogen or air?

3. Sometimes people say that the air is "thinner" high up on a mountain. Is this true?

4. Someone decides that it would be wise to get rid of machine oil by dumping it into a nearby pond. This person thinks that since it is only a small amount of machine oil, dumping it would not create problems because the oil would mix with the water in the pond and "disappear." What would you say to this person?

Density Worksheet and KEY

Name _____ Date _____

ANSWER KEY

Directions: Solve each problem below. Show your work and circle your answers.

Example: A student has a sample of aluminum that has a mass of 27 g and a volume of 10 cm^3 .Mass = 27 g Volume = 10 cm^3

Density = mass / volume

Density = $27\text{ g} / 10\text{ cm}^3$ Density = 2.7 g/cm^3 1. A rock of lead has a mass of 500 g and a volume of 2500 cm^3 . What is the density of the lead?Mass = 500 g Volume = 2500 cm^3

Density = mass / volume

Density = $500\text{ g} / 2500\text{ cm}^3$ Density = 0.2 g/cm^3 2. A log of wood has a mass of 6.0 g and a volume of 12.0 cm^3 . What is the density of the block of wood?Mass = 6.0 g Volume = 12.0 cm^3

Density = mass / volume

Density = $6.0\text{ g} / 12.0\text{ cm}^3$ Density = 0.5 g/cm^3 3. The density of aluminum is 2.7 g/cm^3 . If a sample of the substance has a volume of 25 cm^3 , then what is its mass? (Hint: Use the equation: mass = density \times volume.)Mass = 2.7 g/cm^3 Volume = 25 cm^3 Mass = $2.7\text{ g/cm}^3 \times 25\text{ cm}^3$ Mass = 67.5 g 4. You have a lead ball with a mass of 420 g . The density of lead is 11.3 g/cm^3 . What is the volume of the lead ball? (Hint: Use the equation: volume = mass/density.)

Volume = mass / density

Volume = $420\text{ g} / 11.3\text{ g/cm}^3$ Volume = 37.0 cm^3 Volume = 37 cm^3 </

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