

## Calculating Density Answer Key

**Instructions:** Perform the following density calculations.

1. What is the density?

Mass = 44 g

Volume = 44 mL

- a. 0 g/mL
- b. 44 g/mL
- c. 1 g/mL**
- d. 11 g/mL

3. What is the density of a substance that has a mass of 20 g and volume of 10 mL?

- a. 0.5 g/mL
- b. 2.0 g/mL**
- c. 10 g/mL
- d. 200 g/mL

5. What is the density of an object that has a mass of 92 grams and a volume of 40 milliliters?

- a. 52 g/mL
- b. 0.4 g/mL
- c. 2.3 g/mL**
- d. 132 g/mL

7. Gloria needs to find the density of a cube. Each side of the cube measures 3 cm and the mass of the cube is 12 g. What is the approximate density of the cube?

- a.  $0.4\text{g}/\text{cm}^3$**
- b.  $1.3\text{g}/\text{cm}^3$
- c.  $4.0\text{g}/\text{cm}^3$

9. Maria's mom gave her an apple that has a mass of 90 g and a volume of  $30\text{ cm}^3$ . What is the apple's density?

$$90\text{ g}/30\text{cm}^3 = 3\text{ g}/\text{cm}^3$$

2. What is the density?

Mass = 120 g

Volume = 96 mL

- a. 1.52 g/mL
- b. 0.33 g/mL
- c. 1.20 g/mL
- d. 1.25 g/mL**

4. What is the density of an object that has a mass of 34 grams and a volume of 17 milliliters?

- a. 0.5 g/mL
- b. 51 g/mL
- c. 578 g/mL
- d. 2 g/mL**

6. Aiden found the mass of a rock to be 200 grams. He then found the volume of the rock to be 20 cubic centimeters. What is the density of the rock?

- a. .010 grams/cubic centimeter
- b. .10 grams/cubic centimeter
- c. 100 grams/cubic centimeter
- d. 10 grams/cubic centimeter**

8. Stella's nephew has plastic blocks that he enjoys playing with. One of the blocks has a mass of 15 g and a volume of 5 mL. Find the density of the block.

$$15\text{ g}/5\text{ mL} = 3\text{ g}/\text{mL}$$

10. I find a rock that has a volume of  $15\text{cm}^3$  and a mass of 45g. What is the density of the rock?

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

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