

## Physical Science Worksheet 3: Finding Density

Density is how closely together the atoms are packed in an object. You can find density by using the following formula:

$$\text{Density} = \text{mass} \div \text{volume}$$

Circle the letter of the correct answer.

- A cube of water has a mass of 5 grams per 5 cubic centimeter ( $\text{cm}^3$ ).  
The density is a) 1 b) 3 c) 4 d) 5 gram(s) per  $\text{cm}^3$ .
- A cube of cork has a mass of 2 grams per 8  $\text{cm}^3$ .  
The density is a)  $\frac{1}{8}$  b)  $\frac{1}{3}$  c)  $\frac{1}{4}$  d)  $\frac{1}{2}$  gram per  $\text{cm}^3$ .
- A cube of iron has a mass of 46.8 grams per 6  $\text{cm}^3$ .  
The density is a) 3.8 b) 5.8 c) 6.8 d) 7.8 grams per  $\text{cm}^3$ .
- A cube of lead has a mass of 22.6 grams per 2  $\text{cm}^3$ .  
The density is a) 10.3 b) 11.3 c) 12.3 d) 13.3 grams per  $\text{cm}^3$ .
- A cube of lead has a mass of 45.2 grams per 4  $\text{cm}^3$ .  
The density is a) 10.3 b) 11.3 c) 12.3 d) 13.3 grams per  $\text{cm}^3$ .
- The density of 6 grams of lead is a) 10.3 b) 11.3 c) 12.3 d) 13.3 grams per  $\text{cm}^3$ .
- A cube of wood has a mass of 1 gram per 2  $\text{cm}^3$ .  
The density is a) 0.1 b) 0.2 c) 0.5 d) 1 gram per  $\text{cm}^3$ .
- A cube of wood has a mass of 2 grams per 4  $\text{cm}^3$ .  
The density is a) 0.1 b) 0.2 c) 0.5 d) 1 gram per  $\text{cm}^3$ .
- The density of 6 grams of wood is a) 0.1 b) 0.2 c) 0.5 d) 1 gram per  $\text{cm}^3$ .
- A cube of cork has a mass of 1 gram per 4  $\text{cm}^3$ .  
The density is a) 1 b) 0.25 c) 0.5 d) 0.75 gram per  $\text{cm}^3$ .

## Physical Science Worksheet 3: Finding Density

Density is how closely together the atoms are packed in an object. You can find density by using the following formula:

$$\text{Density} = \text{mass} \div \text{volume}$$

Circle the letter of the correct answer.

- A cube of water has a mass of 5 grams per 5 cubic centimeter ( $\text{cm}^3$ ).  
The density is a) 1 b) 3 c) 4 d) 5 gram(s) per  $\text{cm}^3$ .
- A cube of cork has a mass of 2 grams per 8  $\text{cm}^3$ .  
The density is a)  $\frac{1}{8}$  b)  $\frac{1}{3}$  c)  $\frac{1}{4}$  d)  $\frac{1}{2}$  gram per  $\text{cm}^3$ .
- A cube of iron has a mass of 46.8 grams per 6  $\text{cm}^3$ .  
The density is a) 3.8 b) 5.8 c) 6.8 d) 7.8 grams per  $\text{cm}^3$ .
- A cube of lead has a mass of 22.6 grams per 2  $\text{cm}^3$ .  
The density is a) 10.3 b) 11.3 c) 12.3 d) 13.3 grams per  $\text{cm}^3$ .
- A cube of lead has a mass of 45.2 grams per 4  $\text{cm}^3$ .  
The density is a) 10.3 b) 11.3 c) 12.3 d) 13.3 grams per  $\text{cm}^3$ .
- The density of 6 grams of lead is a) 10.3 b) 11.3 c) 12.3 d) 13.3 grams per  $\text{cm}^3$ .
- A cube of wood has a mass of 1 gram per 2  $\text{cm}^3$ .  
The density is a) 0.1 b) 0.2 c) 0.5 d) 1 gram per  $\text{cm}^3$ .
- A cube of wood has a mass of 2 grams per 4  $\text{cm}^3$ .  
The density is a) 0.1 b) 0.2 c) 0.5 d) 1 gram per  $\text{cm}^3$ .
- The density of 6 grams of wood is a) 0.1 b) 0.2 c) 0.5 d) 1 gram per  $\text{cm}^3$ .
- A cube of cork has a mass of 1 gram per 4  $\text{cm}^3$ .  
The density is a) 1 b) 0.25 c) 0.5 d) 0.75 gram per  $\text{cm}^3$ .