

Science/Math Activity 1: Density

The density of an object is a measure of how closely its atoms are packed together.

Write the letter of the correct answer on the blank following each item.

Use this formula to find the density. **Density = mass ÷ volume**

- The mass of a cubic centimeter of an object is 36.6 grams (g). The volume is 3 cubic centimeters (cm³).
The density of the object is a) 9.2 b) 10.2 c) 12.2 d) 14.2 grams per cubic centimeter (g/cm³). _____
- The mass of a cubic centimeter of an object is 24 g. The volume is 3 cm³.
The density of the object is a) 4 b) 6 c) 8 d) 10 g/cm³. _____
- The mass of a cubic centimeter of an object is 9 g. The volume is 9 cm³.
The density of the object is a) 1 b) 2 c) 3 d) 4 g/cm³. _____
- The mass of a cubic centimeter of an object is 12.8 g. The volume is 2 cm³.
The density of the object is a) 2.4 b) 4.4 c) 6.4 d) 8.4 g/cm³. _____
- The mass of a cubic centimeter of an object is 24 g. The volume is 4 cm³.
The density of the object is a) 6 b) 8 c) 10 d) 12 g/cm³. _____
- The mass of a cubic centimeter of an object is 10 g. The volume is 3 cm³.
The density of the object is a) 0.33 b) 1.33 c) 2.33 d) 3.33 g/cm³. _____
- The mass of a cubic centimeter of an object is 125 g. The volume is 2 cm³.
The density of the object is a) 42.5 b) 52.5 c) 62.5 d) 72.5 g/cm³. _____
- The mass of a cubic centimeter of an object is 1 g. The volume is 2 cm³.
The density of the object is a) 0.2 b) 0.25 c) 0.4 d) 0.5 g/cm³. _____

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