## Density Practice Problems Worksheet #2 Answer Key

1. You have a rock with a volume of 15cm3 and a mass of 45 a. What is its density?

Density = m/v Density = 45g/15cm<sup>3</sup> Density = 3.0g/cm<sup>3</sup>

2. You have a different rock with a volume of 30cm<sup>3</sup> and a mass of 60g. What is its density?

Density = m/v Density = 60g/30cm<sup>3</sup> Density = 2.0g/cm<sup>3</sup>

3. In the above two examples which rock is more dense? Why?

Rock sample #1, because it has a density of 3.0g/cm<sup>3</sup>, which is greater than rock sample #2's density of 2.0g/cm<sup>3</sup>

4. Calculate the mass of a liquid with a density of 3.2 g/mL and a volume of 25 mL.

Mass = D x V Mass = 3.2g/ml x 25 ml Mass = 80.0 q

 Calculate the density of a 500g rectangular block with the following dimensions: length=8 cm, width=6 cm, height=5 cm.

Density = m/v
Density = 500g/240cm<sup>3</sup> (8cm × 6cm × 5cm)
Density = 2.083, rounded to nearest tenth = 2.1 g/cm<sup>3</sup>

 Calculate the mass of a solid metal block with a density of 2.6 g/cm<sup>3</sup>, a width of 1.8 cm, a length of 4 cm, and a height of 2.3 cm.

Mass = D x V Mass =  $2.6g/cm^3 \times (1.8cm \times 4cm \times 2.3 cm)$ Mass =  $2.6g/cm^3 \times 16.56cm^3$ Mass = 43.056g - rounded to nearest tenth = 43.1 g

# **Chemistry Density Word Problems Answers**

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