Density Practice Problems Worksheet #2
Answer Key

1. You have a rock with a volume of 15cm^3 and a mass of 45 g. What is its density?

Density = m/v
Density = 45g/15cm^3
Density = 3.0g/cm^3

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

Density = m/v
Density = 60g/30cm^3
Density = 2.0g/cm^3

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

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

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 g

5. 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^3 (8cm x 6cm x 5cm)
Density = 2.083, rounded to nearest tenth = 2.1 g/cm^3

6. Calculate the mass of a solid metal block with a density of 2.6 g/cm^3, 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 x (1.8cm x 4cm x 2.3 cm)
Mass = 2.6g/cm^3 x 16.56cm^3
Mass = 43.056g – rounded to nearest tenth = 43.1 g

2 Practice Problems Answer Key

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