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| **Density Problems** |

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**1. Calculate the density for the following object. If you know that the object has a mass of 24 grams and the volume is 10 ml.**

**2. Calculate the volume for the following object If you know that the object has a mass of 25 grams and the density is 12 g/ml.**

**3. Calculate the mass for the following object. If you know that the object has a density of 24 g/ml and the volume is 5 ml.**

**4. Calculate the density of a liquid in a beaker. The beaker has a mass of 15 grams when empty. The beaker plus an unknown liquid has a mass of 54 grams. What is the density of the liquid if its volume is 10 mL?**

**5. Calculate the density of a piece of metal. The rectangular piece of solid metal has the dimensions of 2cm3, 3 cm3, and 2 cm3**. **The unidentified metal has a mass of 44 grams.**

**6. In the boxes All the same size) below the dark circles represent particles of matter (all the same mass). Which box below has the greatest density?**

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|  | http://www.glenbrook.k12.il.us/gbssci/team/density1.gif |  | http://www.glenbrook.k12.il.us/gbssci/team/density2.gif |  | http://www.glenbrook.k12.il.us/gbssci/team/density3.gif |  | http://www.glenbrook.k12.il.us/gbssci/team/density4.gif |

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