

DATE:

NAME:

CLASS:

CHAPTER 5
PROBLEM SOLVING**How Much? How Dense?****BLM 5-11**

Goal • Apply your understanding of the relationship between mass, volume, and density.

What to Do

Fill in the missing information in the chart below. Be sure to pay attention to the units.

Mass	Volume	Density
25 g	40 mL	
280 kg	1.5 m ³	
77 mg	1.5 mL	
	2.0 mL	1.5 g/mL
50 g		25 g/L
250 mg		1.0 mg/mL
	55 L	4 kg/L
	3.0 L	0.0025 g/L
75 kg	200 L	
	200 L	50 g/L

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CHAPTER 5
PROBLEM SOLVING**How Much? How Dense?** (continued)**BLM 5-11**

290 g	75 mL	
50 g		55 g/mL
	200 L	4.0 mg/L
1500 kg		4 000 000 kg/m ³
48 g	250 cm ³	

1. What are the properties of the following substances that make them important for the stated uses?
 - a. Diamond is used in drill bits that travel through rock.
 - b. Antifreeze is used as a car coolant.
 - c. Helium is used to fill the Good Year blimp.
 - d. Hydrogen is not used to fill the Good Year blimp.
 - e. Copper is used in house wiring.