NAME:

Practice Exam Skill Building

- 1. An object with a mass of 17.0 kg displaces 2.5 L of water when placed in a large overflow container. Calculate the density of the object.
 - $D = \frac{M}{2}$ = $\frac{17}{25}$ = 4.8 . The density is 6.8 kg/L M = 17 kgV = 2.5 LD = ?
- 2. Calculate the mass of a liquid with a density of 2.2 g/mL and a volume of 35.0 mL

3. A 600 mL bottle of a liquid has a mass of 678.22 g.

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(a) What is the density of the liquid? (Answer to 3 decimal places)

M=678.22 V=600 D=7

D-22g/mL

V=35mL

m=7

(b) What volume container would be required to store 3 kg of the liquid from question? (answer to the nearest mL)

- $V = \frac{1}{113} \frac{1}{3000} \frac{1}{1.13} = \frac{1.13}{2012} \frac{3000}{1.13} = \frac{1.13}{1.13} = \frac{1.13}{$
- : the volume is 2654 m2

 The data table gives the mass and volume of different blocks. Make a line graph, using the data, by placing volume on the x-axis and mass on the y-axis

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Block	Mass (g)	Volume (mL)
1	4.9	10.2
2	20.4	41.0
3	145.8	292.6
4	200.0	398.9

Mass and Volume of Blocks



What is the mass of the block when the volume is 50 mL? (1 mark)

What is the volume of the block when it has a mass of 100 g? (1 mark)

192 mL

289