SNC 1DI
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.

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.

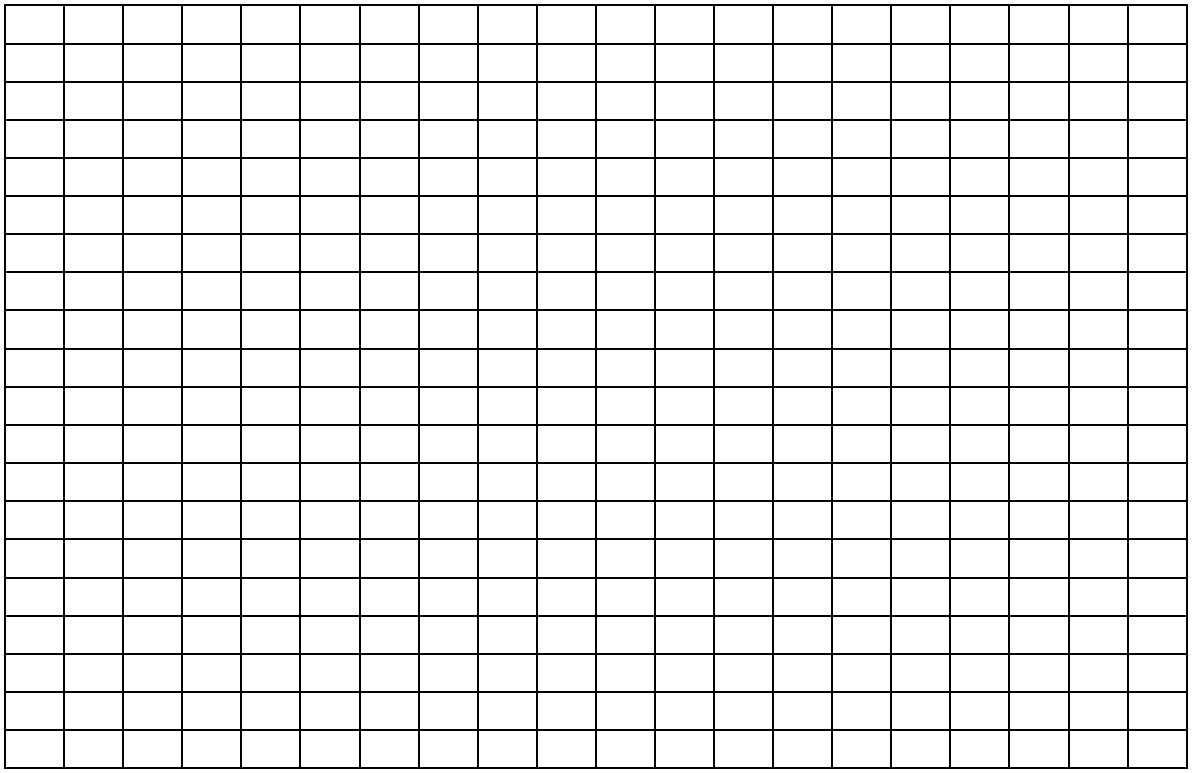
(a) What is the density of the liquid? (Answer to 3 decimal places)

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

4. 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

Mass and Volume of Blocks

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



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)