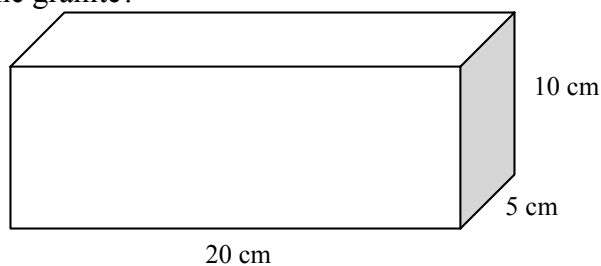


## SCIENCE 8 – DENSITY CALCULATIONS WORKSHEET

NAME: \_\_\_\_\_

- 1) A student measures the mass of an  $8 \text{ cm}^3$  block of brown sugar to be 12.9 g. What is the density of the brown sugar?
- 2) A chef fills a 50 mL container with 43.5 g of cooking oil. What is the density of the oil?
- 3) Calculate the mass of a liquid with a density of 2.5 g/mL and a volume of 15 mL.
- 4) Calculate the volume of a liquid with a density of 5.45 g/mL and a mass of 65 g.
- 5) A machine shop worker records the mass of an aluminum cube as 176 g. If one side of the cube measures 4 cm, what is the density of the aluminum?
- 6) A teacher performing a demonstration finds that a piece of cork displaces 23.5 mL of water. The piece of cork has a mass of 5.7 g. What is the density of the cork?
- 7) A carver begins work on the following block of granite that weighs 2700 g. What is the density of the granite?



- 8) A piece of PVC plumbing pipe displaces 60 mL when placed into a container of water. If the pipe has a mass of 78 g, what is the density of PVC?
- 9) A solid magnesium flare has a mass of 1300 g and a volume of  $743 \text{ cm}^3$ . What is the density of the magnesium?