

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

**ACTIVITY #4 – DETERMINING DENSITY**

**PURPOSE:**

**OBSERVATIONS:**

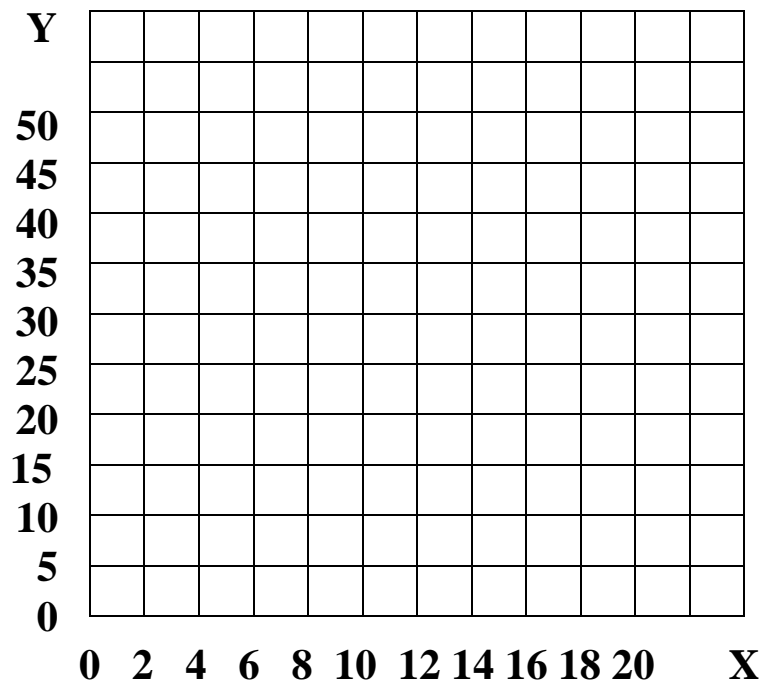
Mass of the marble (g)	Total Mass of marbles (g)	Total volume (ml)	Volume of marbles (cm <sup>3</sup> )	Density of marbles (g/cm <sup>3</sup> )

**REPORT:**

- 1) Examine the data in your observation chart.
  - A) As the number of marbles increases, what happens to the total mass of the marbles?
  - B) What happens to the volume of the marbles?
  - C) What happens to the density of the marbles?

2) Does the density of a substance depend on the amount of substance present? Explain how your results support your answer.

3) Graph the total mass of the marbles (y-axis) versus the volume of the marbles (x-axis) in the grid below. Is the graph a straight line or a curved line?



**CONCLUSION:**