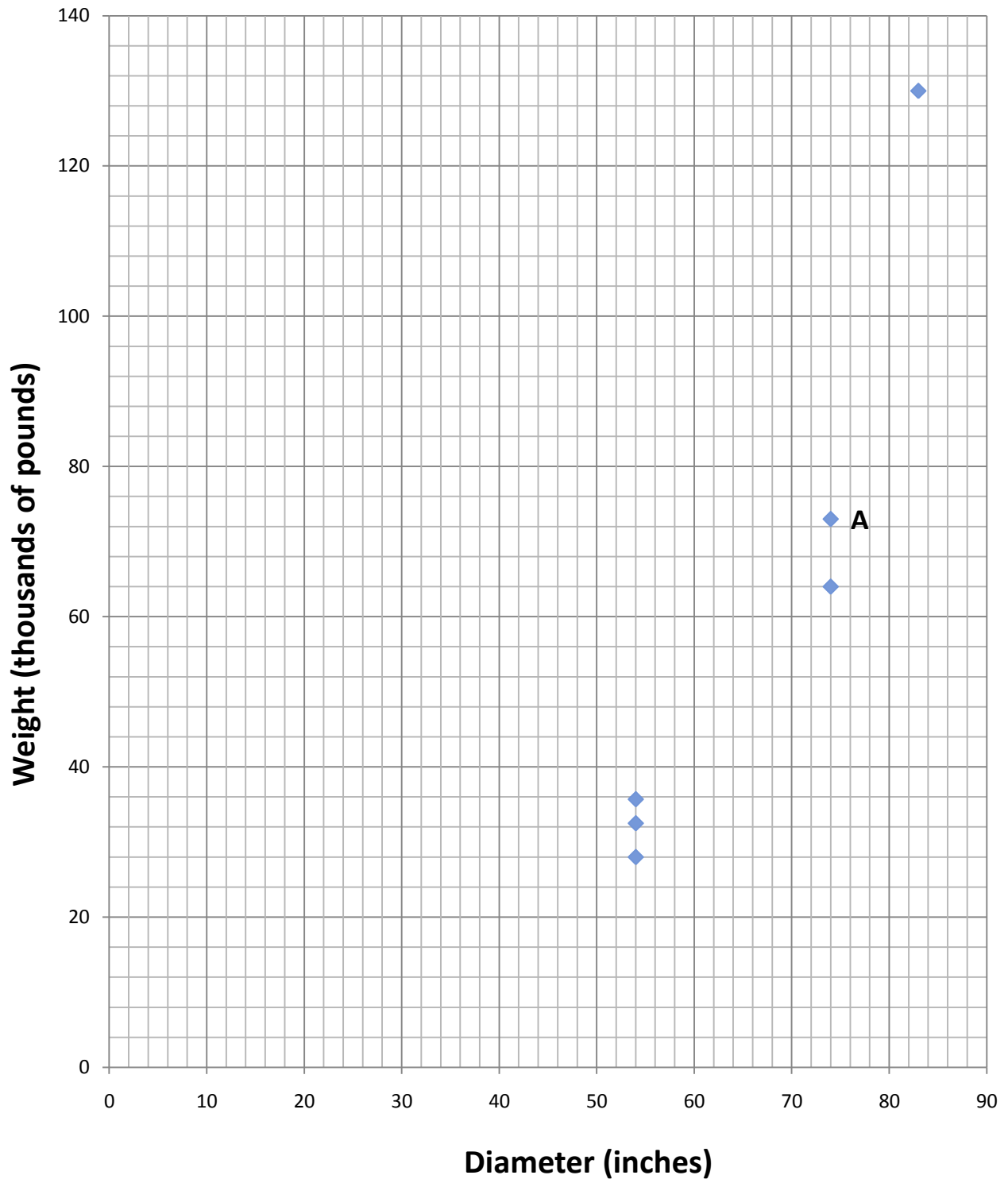


# OMG! Missiles are Scattered Everywhere

The graph below shows the weight and the diameters of the Fleet Ballistic Missiles for the US Navy Submarines. Use the scatter plot to answer the questions found on the next page.

**Weight and Diameter of US Navy submarine Missiles**



1. How many missiles have a diameter of 54 inches? \_\_\_\_\_ How did you determine the number? \_\_\_\_\_

\_\_\_\_\_

2. What does the point labeled "A" represent? \_\_\_\_\_

\_\_\_\_\_

How did you decide what it represented? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

3. Using the pattern that exists with this data, if the US Navy developed a new missile that was approximately 100,000 pounds, what would its diameter be? \_\_\_\_\_

\_\_\_\_\_ Explain your answer. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4. Suppose a missile had a diameter of 65 inches, what do you think the weight would be? \_\_\_\_\_

\_\_\_\_\_ Explain your answer. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

5. Suppose the US Navy made a new and improved missile that weighed approximately 150,000 pounds, what do you think the diameter would be? \_\_\_\_\_

Explain your answer. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

6. Describe the relationship between a missile's weight in pounds and its diameter in inches. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_