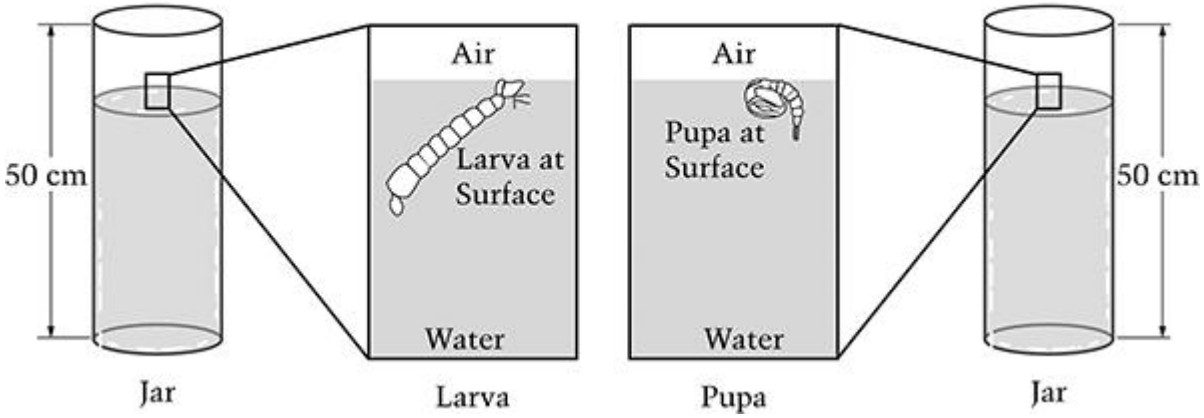
Questions 10 - 13 refer to the following investigation.

Some students were studying the life cycle of mosquitoes. They learned that mosquito larvae and pupae spend part of their time at the surface of water.

The students wanted to find out how a larva and pupa behaved when the jars they were in were disturbed. They put one larva and one pupa in identical tall jars of water at 20°C as shown below.

JARS WITH LARVA AND PUPA



The students tapped on the jars when the larva and pupa were at the surface of the water. The larva and pupa dove down into the jars, and then slowly came to the surface.

The students measured the depth each larva and pupa reached and the amount of time each stayed underwater. The students repeated this step five times and calculated the average of each of their measurements.

Their results are summarized in the table below.

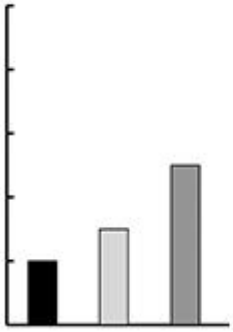
DATA TABLE

Number of Trials	Larva		Pupa	
	Average Depth Reached (centimeters)	Average Length of Time Underwater (seconds)	Average Depth Reached (centimeters)	Average Length of Time Underwater (seconds)
5	22	90	38	120

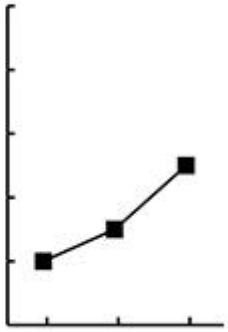
11. You will use the data in the table to create two graphs to compare the behaviors of the larva and the pupa.

    Which graph format would be best to use for both graphs?

SAMPLE BAR GRAPH



SAMPLE LINE GRAPH

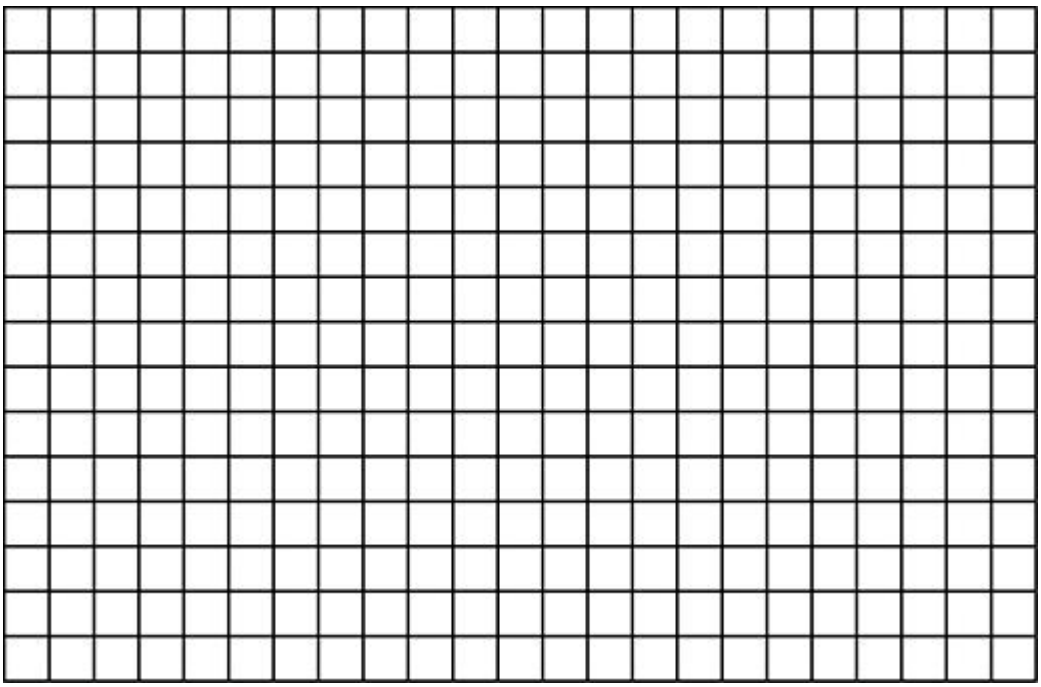
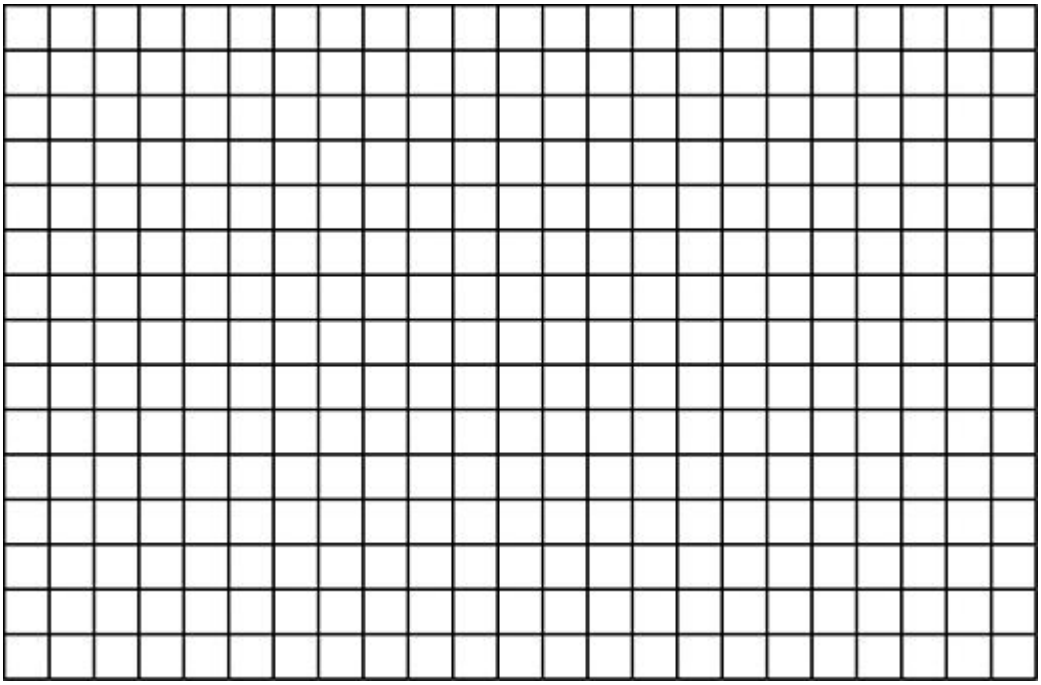


A. Bar graph
B. Line graph

Explain why you think this graph format would be best for the information in this table.

In the space provided below, draw each graph using the format you chose. Use the data from the table. Be sure to label all parts of your graph.

Graph 1



Graph 2