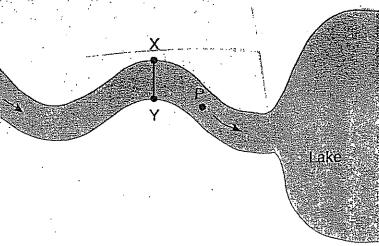
Base your answers to questions 109 through 112 on the diagram and the stream data table below.

The diagram represents a stream flowing into a lake: Arrows show the direction of flow. Point P is a location in the stream. Line XY is a reference line across the stream. Points X and Y are locations on the banks. The data table gives the depth of water in the stream along line XY.



Stream Data Table

	Location X							Location Y
Distance from X (meters)	0	5 .	10	15	20 .	25	30	35
Depth of Water (meters)	0	5.0	5.5	4.5	3.5	2.0	0.5	0 .

Directions (109-110): Use the information in the data table to construct a profile of the depth of water. Use the grid provided on your answer paper, following the directions below.

- 109 On the vertical axis, mark an appropriate scale for the depth of water. Note that the zero (0) at the top of the axis represents the water surface. [1]
- 110 Plot the data for the depth of water in the stream along line XY and connect the points.

 (Distance is measured from point X.) [2]

Example:

- 111 State why the depth of water near the bank at point X is different from the depth of water near the bank at point Y. [1]
- 112 At point P, the water velocity is 100 centimeters per second. State the name of the largest sediment that can be transported by the stream at point P. [1]

[25]

