## Name \_

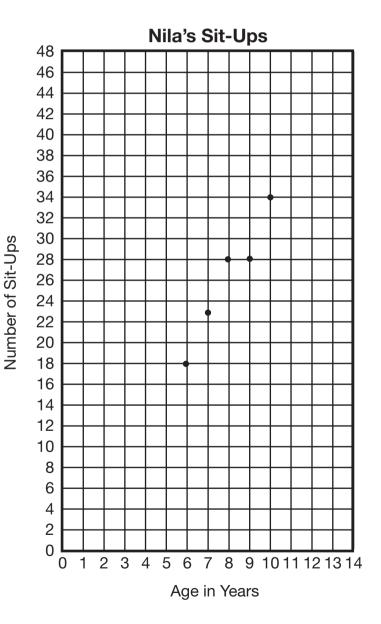
Date \_

## **Using Best-Fit Lines**

1. Each year, Mrs. Welch, a gym teacher at Bessie Coleman School, records the number of sit-ups each student can do. Nila used her data to make a graph that shows the number of sit-ups she could do each year.

**A.** Describe the graph.

- **B.** If you read the graph from left to right, do the points go uphill or downhill?
- **C.** What does the graph tell you about the number of sit-ups Nila can do?
- **D.** Do the points lie close to a straight line? If so, use a ruler to draw a best-fit line.
- E. If possible, predict the number of sit-ups Nila will be able to do when she is 12. Show any work on the graph.
- **F.** Does knowing Nila's age help you predict the number of sit-ups she can do?



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