

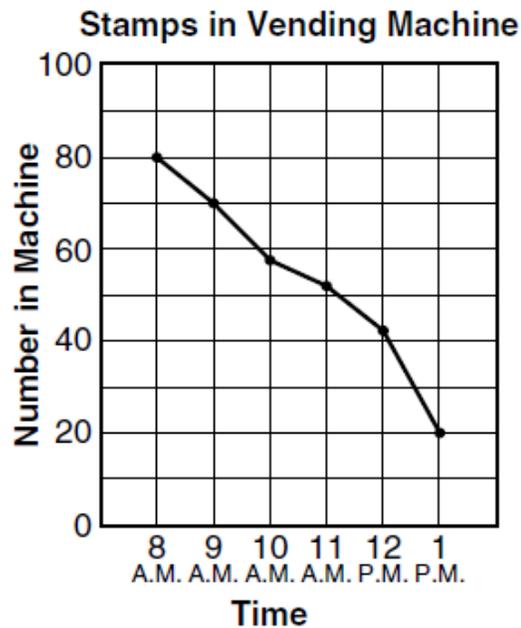
Grade 3 Mathematics Assessment Analysis – SOL Alignment and Cognitive Demand

STANDARD 3.17

The student will

- collect and organize data, using observations, measurements, surveys, or experiments;
- construct a line plot, a picture graph, or a bar graph to represent the data; and**
- read and interpret the data represented in line plots, bar graphs, and picture graphs and write a sentence analyzing the data.**

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- 1) The graph below shows how the number of books of flower stamps in a vending machine changed over a period of hours.

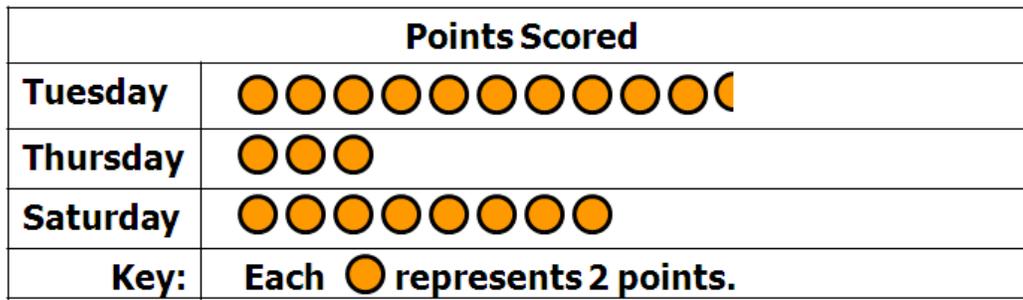


Which is the closest to the number of books of stamps in the machine at 11 AM?

- 41
- 46
- 52
- 59

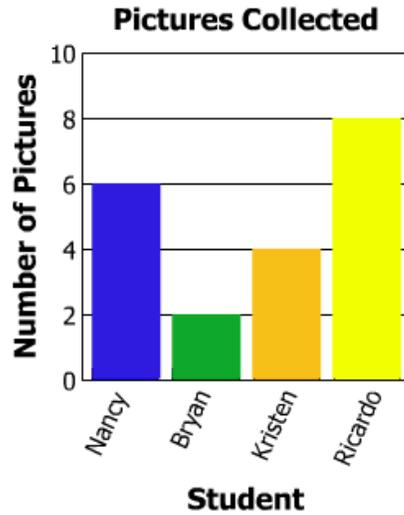
Use the graph below to answer questions 2-4.

This graph represents the number of points scored by a basketball team on three days.



- 2) How many points were scored on Thursday?
- 3) How many more points were scored on Saturday than Thursday?
- a) 5
 - b) 3
 - c) 10
 - d) 16
- 4) How many points were scored on all three days?

- 5) The graph shows the number of pictures collected by each of four students. Based on the graph, select all statements that are true.

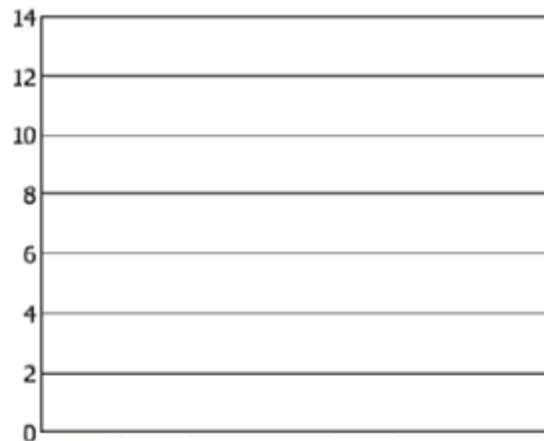


Ricardo collected the most pictures.
The four students collected a total of 20 pictures.
Nancy collected 2 more pictures than Bryan.
Bryan collected the least pictures.
Ricardo collected more pictures than Bryan and Kristen combined.

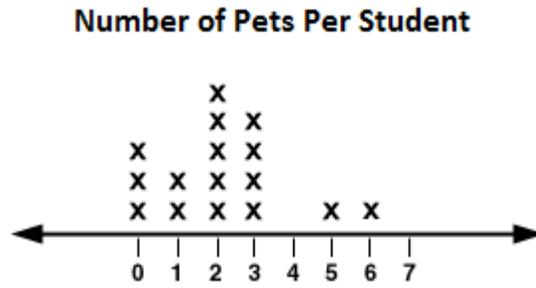
- 6) Shelby asked some friends to name their favorite kind of pizza. He made this tally chart to show their answers. Create a bar graph to show the information from the tally chart.

Favorite Pizza

Cheese	
Mushroom	###
Pepperoni	### ##
Sausage	##



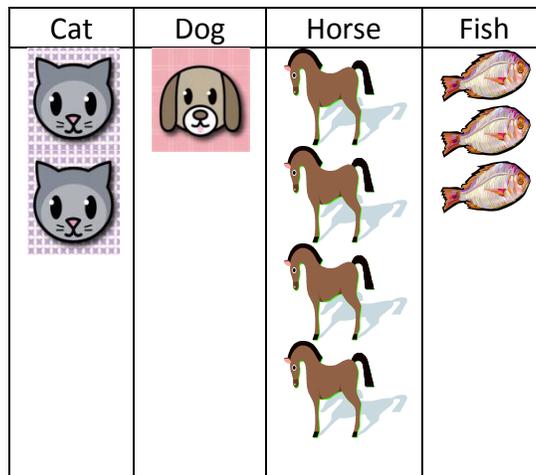
- 7) This line plot shows the number of pets of each of the 16 students in Mrs. Morton's third grade class.



How many students have at least 3 pets?

- a) 4
- b) 0
- c) 6
- d) 3

- 8) The students in Mr. Schulz's class were asked to choose an animal to study for a science project. This picture graph shows the choices made by 10 students.



According to the graph, how many more students chose to study horses than chose to study cats?