

6th Grade Math Common Assessment Answer Key: Chapter 6 (16 Points)

Name: _____ Date _____

6.SP.1

1.) The number of points a basketball player scored each game for one week is recorded. **Which is a not a statistical question for the situation?** (1 point)

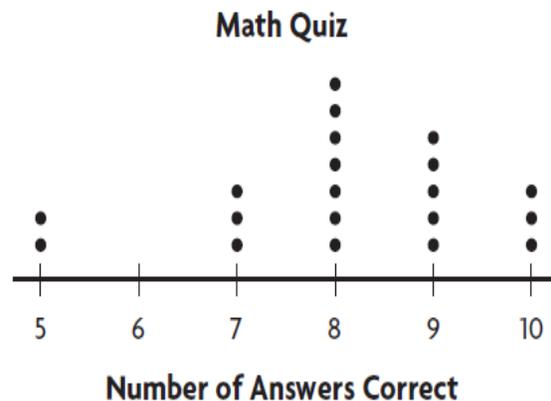
- A. What is the greatest number of points the basketball player scored?
- B. What is the least number of points the basketball player scored?
- C. How many points did the basketball player score in the first game of the week?
- D. How many total points did the basketball player score during the week?

6.SP.2

2.) Mr. Cruz used a dot plot to display the number of questions that each student answered correctly on the math quiz.

Which statement correctly describes the data? (1 point)

- A There is a cluster from 5 to 7.
- B The median of the data is 7.5
- C The mode of the data is 9.
- D There is a gap at 6.



6.SP.3

3.) Cynthia has 5 books with heights of 5 inches, 6 inches, 7 inches, 11 inches, and 11 inches.

a. Find the range, median, mode, and mean of Cynthia's books.

6 range, 7 median, 11 mode, 8 mean (4 points)

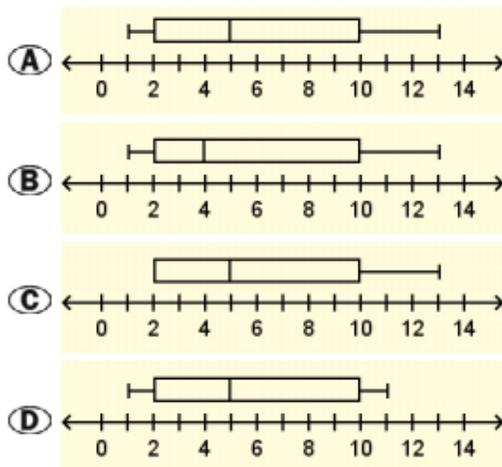
b. She says that her books are about 8 inches high. Do you agree or disagree with Cynthia's claim? Explain your answer.

Answers will vary (2 points)

6.SP.4

4.) Which box plot correctly displays the data set shown? **A** (1 point)

2, 5, 7, 2, 11, 13, 5, 7, 1, 10, 10, 2, 3, 5, 1, 11

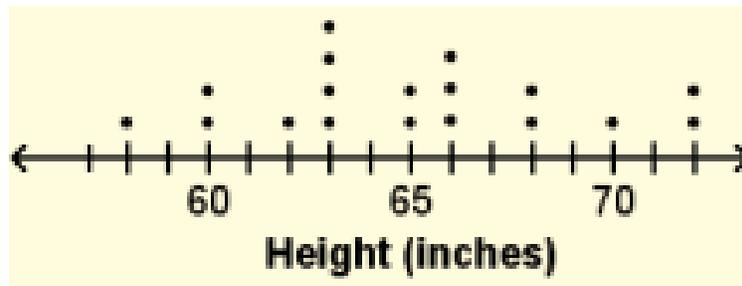


6. SP.5 a.b

5.) Gabby collected the heights, in inches, of her coworkers. This data is shown.

65, 70, 60, 58, 60, 63, 65, 66, 72, 72, 63, 62, 63, 66, 63, 68, 68, 66

a. Construct a dot plot of the data Gabrielle collected. (2 Points)



b. What does each dot in the dot plot represent? (1 Point)

Each dot represents the height, in inches, of one of Gabby's coworkers.

c. Find the height of the tallest and shortest coworker. What are the units of measurements? (1 Point)

The tallest coworker is 72 inches tall and the shortest coworker is 58 inches tall.

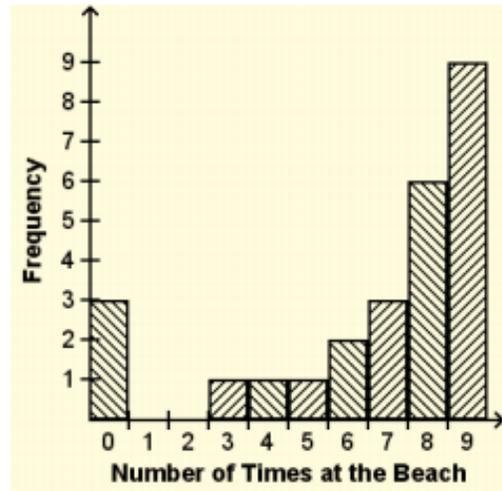
d. Can Gabrielle use a different unit of measurement when collecting her data? Explain. (1 Point)

Yes, Gabby can collect the heights of her coworkers in centimeters.

6. SP.5c

6.) Fred asked each of his classmates how many times they went to the beach over summer break. He displayed the data using the histogram shown. Which statement best describes the pattern of the distribution? (1 point)

- A. Skewed left with one deviation from the overall pattern at the value 0
- B. Skewed left with no deviations from the overall pattern
- C. Skewed right with one deviation from the overall pattern at the value 0
- D. Skewed right with no deviations from the overall pattern



6.SP.5.d

7.) The number of miles Cynthia travels each day is shown. What are the values of the measures of center and variability that best describe the data set? (1 point)

57, 40, 35, 60, 56, 57, 59

- A.) The mean 52 miles and the mean absolute deviation about 8 miles
- B.) The median 57 miles and the interquartile range 19 miles
- C.) The mean 57 miles and the mean absolute deviation 19 miles
- D.) The median 52 miles and the interquartile range about 8 miles

6.SP.6 and 6.SP.7

Are not evaluated on the assessment. Assess within your classroom.

