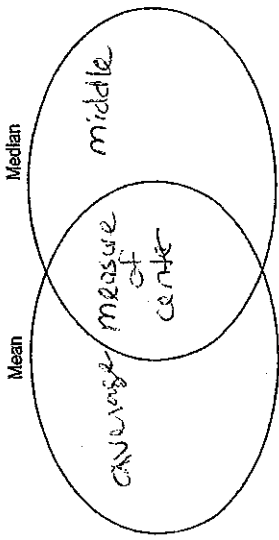


UNIT 12 Study Guide

Displaying Data Review 2

1. Use the Venn Diagram to compare and contrast mean and median.



2. Below are the times that Carol ran this year in the mile. What was her mean time?
- 5 min, 45 sec.
 - 5 min, 30 sec.
 - 5 min, 45 sec.
 - 5 min 30 sec.
 - 6 min, 15 sec.
- Handwritten answers: 5.75, 5.5, 6.25

3. What is the median of the following data set?

- 8, 11.3, 11.5, 13
- Handwritten answer: 11.1

4. Find the mean of the following data set. Round your answer to the tenths place.

- 5.19, -5.4, -5.25, -5.31
- Handwritten answer: -5.3

5. Find the range of the following data set.

- 14, -25, 15, 46, -11, 11, 5, 6
- Handwritten answer: 71

6. Find the mean absolute deviation to the nearest thousandth.

- 69, 78, 83, 61, 86, 74, 81
- Handwritten answer: 7.2715

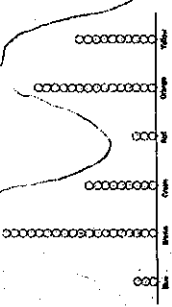
7. The table below shows the grades for three students on five assignments.

Student	Grades
1	80, 90, 75, 75
2	100, 70, 80, 70
3	92, 78, 68, 82

Which statement below is true about the mean absolute deviation (MAD) of the students?

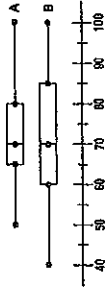
- a. MAD of Student 3 = MAD of Student 1
- b. MAD of Student 2 = MAD of Student 1
- c. MAD of Student 1 < MAD of Student 3
- d. MAD of Student 1 > MAD of Student 2

8. What would be a correct description of the data distribution in the dot plot (or line plot) below?



- A. The data distribution shows no gaps, peaks, and the most popular color is orange and brown.
- B. The data distribution shows three gaps, one peak, and the most popular color is red.
- C. The data distribution shows one gap, three peaks, and the most popular color is yellow.
- D. A description cannot be made about the data distribution.

Use the box plot of Class A and Class B to answer problems #9-11:

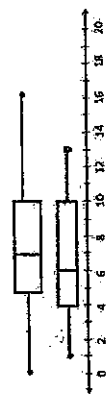


9. What is the IQR for Class A? $65 - 80 = 15$
10. What percent of data in Class B is 85 or lower? 75%
11. If Class B represents 60 pieces of data, how many scores were greater than 85? 15
12. Use the data in the chart to identify the mean of science test scores.

History	89	90	85
Geography	76	74	79
Science	85	90	92
Math	79	81	86

Handwritten circled number: 89

Use the box plot below to answer problems #13-15. The top box plot shows # of pencils in students' backpacks. The bottom box plot shows the # of pens in students' backpacks.



13. What percent of students had more than 7 pencils in their backpacks? 50%
14. Which box plot has more variability, pencils or pens? How do you know? 50% - more spread from med.
15. If there are 120 students total, how many had 4 or less in their backpack? 25% of $120 = 30$

