NAME _____ DATE _____ PERIOD _____

Chapter 9 Review A *(continued)*

SCORE _____

For Exercises 6 and 7, use the two-way table shown below.

	Likes classical music	Dislikes classical music
Plays an instrument	15	2
Does not play an instrument	3	25

6. What is the relative frequency of students that do not play an instrument and do not like classical music to the total number of students who do not play an instrument? Round to the nearest hundredth.

3 + 25 = 28

3.5

or .89

6. _____

7. Which of the following is a valid conclusion about the data?

For Exercises 8 and 9, use the following data set.

2, 3, 3, 4, 5, 7, 8, 8, 8, 10, 10, 12

8. What are the first and third quartiles of the data?

$Q_1 = 3.5$ $Q_3 = 9$ $\bar{x} = 6.\overline{6} \pm 3.23$

8. _____

9. The standard deviation for the data is 3.23. Which of the following is within one standard deviation of the mean?

A. 2 **B.** 5 **C.** 10 **D.** 12

9. B

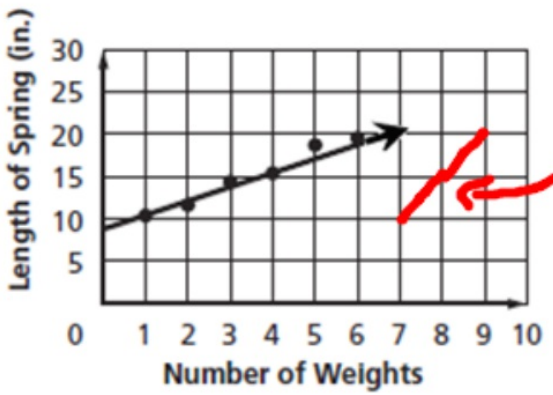
10. The table given below shows the number of students who attended the Spanish Club meetings during the school year. To the nearest tenth, what is the mean absolute deviation of the data?

Spanish Club Attendance		
14	21	17
26	13	20

in between $3.43 - 9.89$

10. _____

For Exercises 4 and 5, use the scatter plot shown at the right. The scatter plot shows the length of a metal spring when weights are attached.



slope = 5...

4. Which of the following is the most reasonable equation for the line of best fit?

F. $y = 5x + 9$

G. $y = -5x + 9$

H. $y = -1.5x + 9$

I. $y = 1.5x + 9$

4. _____

5. Which of the following is the most reasonable estimate for the length of a spring when 20 weights are attached?

A. 25 in.

B. 39 in.

C. 54 in.

D. 62 in.

$1.5(20) + 9 = 39$

30

5. _____ B