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Name	Block	Date	·
•	Unit 10: Statistics EXT	RA PRACTICE	

1.) The data below shows the number of hours two groups spent watching television.

> Group A: {4, 1, 2, 3, 4, 2, 2} Group B: {1, 2, 4, 4, 3, 5, 1}

What is the sum of the interquartile ranges between the two groups?

A. 1



C. 4

9ROUP A: 4-2=2 9ROUD B: 4-1=3

3.) The high temperatures, in degrees Fahrenheit, for eight cities on the same day are shown below.

71, 39, 69, 65, 78, 70, 74, 76,

Which statement is true about the temperatures?

A. The temperature of 39 causes the distribution to be skewed to the right.

B. The temperature of 39 causes the distribution to be skewed to the left.

5.) An outlier with the value of 14 is added to the data set 3, 4, 5, 6, and 7. How does the outlier affect the mean and median?

A. The mean increases by 0.5 and the median increases by 1.5.

B.)The mean increases by 1.5 and the median increases by 0.5.

C. The mean increases by 1.5 and the median increases by 2.0.

D. The mean increases by 2.0 and the median increases by 1.5.

2.) The high temperatures, in degrees Fahrenheit, of several cities were recorded below over a 3-day period.

Monday	62, 68, 71, 73, 65, 79
Tuesday	70, 67, 65, 54, 71, 60
Wednesday	59, 81, 44, 32, 56, 70

Which day had the lowest mean temperature?

A. Monday = 109.7

B. Tuesday = U4 5

C. Wednesday = 5.7

4.) Four data sets are shown below.

Which data set has the largest standard deviation?

A. Set 1

B. Set 2

C. Set 3

D)Set 4

6.) Identify whether the following scenarios are examples of correlation or causation.

A. The speed you drive and the amount of fuel you use. _GQUSQ+10M

B. The number of times you come to tutoring and your test scores improving. CORRUIOTION

C. Number of followers on social media and number of posts. CORRULATION

D. The amount of cars a salesperson sells and how much commission she makes.

7.) The table below shows the height and weight of five players in the starting lineup of a basketball team.

Height (inches)	Weight (pounds)	
60	120	1.8
64	135].17
67	142	-5.7
70	160	1. 3.
71	167	13.1

Based on the line of best fit, what does the residual value for the 60-inch player?

A. The predicted weight is approximately 1.8 pounds less than the player's actual weight.

B. The predicted weight is approximately .18 pounds more than the player's actual weight.

C. The predicted weight is approximately .18 pounds less than the player's actual weight.

D. The predicted weight is approximately 1.8 pounds more than the player's actual weight.

8.) The table below shows average salaries based on the number of years high school graduates attended college.

Approximately what percentage of the values are more than \$2,000 off the expected value from the line of best fit?

A) 14%

B) 28%

>9000 4-2000

Yrs of college	Yearly Income
0,	\$34,736
1	\$38,532
2	\$41,184 🗸
4-	\$57,252
6	\$68,952
8	\$82,732
10	\$85,228 🗸
3	- ≈ 40. 8°/c

9.)

D) 57%

Marsha recorded the time it took six children of different ages to run one lap around the track Using the line of best fit, which is closest to the length of time it should take Marsha's 8 year old son to run one lap?

Age of Child	Time (Seconds)	
4	230	
6	205	
10	132	
13	119	
14	108	
17	62	

168 seconds

176 seconds

182 seconds

190 seconds

<u> </u>
y = -10.55X + 070.51
$\gamma = -10.55(8) + 370.51$
= 70.11

10.) The table below, from Wikipedia, shows U.S. casualties in several different wars

In World War II, there were about \$5,000 U.S. casualties. Which would be true is World War II were included in the da set?

The mean would decrease. B) The median would be over 100,000. The range would stay the same. D) World War II would be an outlier.

1917–18	116,516
1961–75	58,209
1950–53	54,246
1775–83	25,000
1812–15	15,000
1846–48	13,283
	1961–75 1950–53 1775–83 1812–15