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Exploring Data

Quiz, 11 questions

Question 1

1  
point

**1. Question 1**

A researcher wants to measure physical height in as much detail as possible. Which level of measurement does s/he employ?



Nominal level



Interval level



Ordinal level



Ratio level

1  
point

**2. Question 2**

You conduct a study on eye color and you question 550 people. 110 of them have brown eyes and 44% of them have blue eyes. What percentage of the people you questioned has blue or brown eyes? *[Your answer should consist of just the number, no additional characters - so if you think the answer is 41% enter the number 41]*



Question 3

1  
point

**3. Question 3**

In which situation is a bar graph preferred over a pie chart?



When the number of categories in the data is high.



When there are some large categories in the data.



When the number of categories in the data is low.



When one of the categories in the data is really large.

Question 4

1  
point

**4. Question 4**

Ten students completed an exam. Their scores were: 5, 7, 2, 1, 3, 4, 8, 8, 6, 6. What is the interquartile range (IQR)?



4



5,5



5



8

Question 5

1  
point

**5. Question 5**

A researcher wants to know what people in Amsterdam think of football. He asks ten people to rate their attitude towards football on a scale from 0 (don't like football at all) to 10 (like football a lot). The ratings are as follows: 1, 10, 6, 9, 2, 5, 6, 6, 5, 10. What is the standard deviation?



9,3



6,0



9,2



3,1

Question 6

1  
point

**6. Question 6**

You find a z-score of -1.99. Which statement(s) is/are true?



1.99 people scored higher than the person in question.



The score falls below the mean score.



The score lies almost two standard deviations from the mean.



The standard deviation of the test is negative.

Question 7

1  
point

**7. Question 7**

Which of the following statements is true?

I. The stronger the skew, the smaller the difference between the median and the mean.

II. The larger the variance, the smaller the standard deviation.



Both statements are false.



Statement I is true, statement II is false.



Statement II is true, statement I is false.



Both statements are true.

1  
point

**8. Question 8**

The grades for a statistics exam are as follows: 3, 5, 5, 6, 7.5, 6, 5, 1, 10, 4. Which score is an outlier? (Use the interquartile range (IQR).)



Question 9

1  
point

**9. Question 9**

How many goals have the top strikers of the Dutch *Eredivisie* football competition scored? We look at 10 strikers and obtained the following information: 12, 10, 11, 12, 11, 14, 15, 18, 21, 11. The (1) ... of the dataset equals 12, the mean equals (2) ... and the (3) ... equals 11. The standard deviation equals (4) ... Fill in the right words/numbers on the dots.



(1) Median, (2) 11, (3) Mode, (4) 3.57



(1) Median, (2) 13.5, (3) Mode, (4) 3.57



(1) Mode, (2) 13.5, (3) Median, (4) 12.72



(1) Mode, (2) 11, (3) Median, (4) 12.72

Question 10

1  
point

**10. Question 10**

What is true about a variance of zero? (Multiple answers possible.)



This is only the case when you take a sample of n=1.



There is no variability in the scores: everybody has the same score.



The standard deviation equals zero as well.

Question 11

1  
point

**11. Question 11**

What is the difference between variables and constants?



Constants are discrete variables, variables are continuous variables.



Constants vary across cases, variables do not vary.



Variables are discrete variables, constants are continuous variables.



Variables vary across cases, constants do not vary.

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