Practice Test 1

This is a preview of the draft version of the quiz

<table>
<thead>
<tr>
<th>Quiz Type</th>
<th>Graded Quiz</th>
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</thead>
<tbody>
<tr>
<td>Points</td>
<td>40</td>
</tr>
<tr>
<td>Assignment Group</td>
<td>For Your Edification</td>
</tr>
<tr>
<td>Shuffle Answers</td>
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</tr>
<tr>
<td>Time Limit</td>
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</tr>
<tr>
<td>Multiple Attempts</td>
<td>Yes</td>
</tr>
<tr>
<td>Score to Keep</td>
<td>Highest</td>
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<tr>
<td>Attempts</td>
<td>Unlimited</td>
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<tr>
<td>View Responses</td>
<td>Always</td>
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<tr>
<td>Show Correct Answers</td>
<td>Immediately</td>
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<tr>
<td>One Question at a Time</td>
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<tr>
<td>Require Respondus LockDown</td>
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<td>Browser</td>
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<tr>
<td>Required to View Quiz Results</td>
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<tr>
<td>Webcam Required</td>
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<table>
<thead>
<tr>
<th>Due</th>
<th>For</th>
<th>Available from</th>
<th>Until</th>
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<tbody>
<tr>
<td>Sep 29, 2021</td>
<td>Everyone</td>
<td>-</td>
<td>Sep 29, 2021 at 11:59pm</td>
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</tbody>
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Score for this attempt: 0 out of 40
Submitted Apr 21 at 2:19pm
This attempt took less than 1 minute.
Question 3

A researcher wants to study sleep deprivation in college students. She randomly selects 50 students from a local college and asks them how many hours of sleep they get on a typical night. Her results are shown in the table below.

<table>
<thead>
<tr>
<th>Hours of Sleep</th>
<th>Frequency</th>
<th>Relative Frequency</th>
<th>Cumulative Frequency</th>
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</thead>
<tbody>
<tr>
<td>4 to 4.99</td>
<td>6</td>
<td>0.12</td>
<td>0.12</td>
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<tr>
<td>5 to 5.99</td>
<td>8</td>
<td>0.16</td>
<td>0.28</td>
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<tr>
<td>6 to 6.99</td>
<td>12</td>
<td>0.24</td>
<td>0.52</td>
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<tr>
<td>7 to 7.99</td>
<td>10</td>
<td>0.2</td>
<td>0.72</td>
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<tr>
<td>8 to 8.99</td>
<td>9</td>
<td>0.18</td>
<td>0.9</td>
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<tr>
<td>9 to 9.99</td>
<td>4</td>
<td>0.08</td>
<td>0.98</td>
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<tr>
<td>10 to 10.99</td>
<td>1</td>
<td>0.02</td>
<td>1</td>
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</tbody>
</table>

What proportion of students get between 4 and 7.99 hours of sleep a night?

○ 0.28
○ 0.12
○ 0.58
○ 0.52
○ 0.72

Correct Answer: 0.72

Question 4

A university dean wants to know how many credits students are taking.
Identify the levels of measurement of the following data sets:

- **military rank**: Correct Answer = ordinal
- **distance**: Correct Answer = ratio
- **hair color**: Correct Answer = nominal
- **temperature in Celsius**: Correct Answer = interval
Correct Answer  

The standard deviation of A

Correct Answer  

The standard deviation of B

Correct Answer  

The standard deviation of C

Question 8

Five people are at a bar on a Wednesday night. Their salaries (in tens of thousands of dollars) are shown in the table below:

| 3.1 | 3.4 | 4.1 | 4.1 | 5.0 |

If another patron walked in to join them, and their salary was 9.2 (tens of thousands of dollars), what would happen to the median?

- Impossible to tell without further information.
- It wouldn't change.
Give the median of the following data set:

2 3 4 6 8 11

- 5
- 8
- 6.5
- 6
- 7
- 7.5

A nurse tells a couple that their newborn’s weight is in the 72nd percentile. This means that

- About 72% of all babies weigh more than theirs.
- Their baby is the 72nd baby with this weight.
- About 72% of all babies weigh less than theirs.
- Their baby’s weight is about 72% that of the average baby.
Question 14

Identify the following measures as either quantitative discrete, quantitative continuous or qualitative:

- The eye color of 10 randomly selected CEOs [Select]
- The number of credit hours taken by 50 randomly selected students [Select]
- The width of the tails of 100 randomly selected lemurs [Select]

Answer 1:
(You left this blank)

Answer 2:
(You left this blank)

Answer 3:
(You left this blank)
You use a random number table to select 40 of the 350 families from a list. [Select]

There are 28 streets in the neighborhood. You choose 3 streets, and survey every family on those three streets. [Select]

From a list of all 350 families, you choose every 10th family until you have 40 families. [Select]

You break the families up by income, and select 10 families who make under $50,000/year, 10 families who make between $50,000 and $100,000/year, 10 families who make between $100,000 and $150,000/year, and 10 families who make over $150,000/year. [Select]

There are 40 houses between your office and your home. You spend the afternoon walking home, knocking on every door you pass. [Select]

Answer 1:

YOU ANSWERED

(You left this blank)

Correct Answer: simple random

Answer 2:

YOU ANSWERED

(You left this blank)

Correct Answer: cluster

Answer 3:

YOU ANSWERED

(You left this blank)

Correct Answer: systematic

Answer 4:

YOU ANSWERED

(You left this blank)
A criminal justice researcher randomly selects twenty police officers in a county to study their arrest rate. One officer has over 100 arrests while the other officers have made very few arrests. How does the mean compare to the median?

- Mean > Median
- Mean = Median
- Mean < Median
- Impossible to tell without further information
Question 20

The mean height for an adult male is 171 cm with a standard deviation of 16 cm. Ruhal is told that the z-score of his height is 2.2.

Is Rahul's height above average or below average?

- [ ] Below average

- [ ] Above average

- [ ] It is impossible to say from the data given

Question 21

A kinesiology student is interested in the impact of wrist extension while using a computer keyboard on carpal tunnel syndrome. The student takes a random sample of 30 typists, and finds their average wrist extension to be 29 degrees with a standard deviation of 4 degrees. How would you find a z-score corresponding to a typist with a wrist extension of 31 degrees in Excel?