Quiz_1

Data Type	Variable
تصنيفية	Zip Code
كمية	Age
كمية	Income
تصنيفية	Marital Status (Single, Married, Divorced, etc.)
كمية	Height

Data Type	Variable
تصنيفية	Letter Grades (A+, A, A-, B+, B, B-, ...)
كمية	Travel Distance to Work
تصنيفية	Ratings on a Survey (Poor, Ok, Great)
كمية	Temperature
كمية	Average Speed

Quiz_2

☐	الدرجات بالأحرف (A، وB+، وB، وB-، إلخ)
☑	أنواع الفاكهة (تفاح، موز، إلخ.)
☐	التقييمات في الدراسات الاستقصائية (سيء، مقبول، رائع)
☑	أنواع سلالات الكلاب (كلاب "الراعي الألماني"، كلاب الكولي، إلخ.)
☑	أنواع الأفلام (رعب وكوميديا وما إلى ذلك)
☑	الجنس
☑	الجنسية

Quiz_3

☑	مسافة الطريق من البيت إلى العمل
☐	عدد صفحات الكتاب
☑	كمية الأمطار خلال السنة
☑	الوقت اللازم لقطع مسافة ميل واحد
☐	عدد الأفلام التي شاهدتها خلال أسبوع
☑	كمية المياه المستهلكة في يوم واحد
☐	عدد الهواتف التي يمتلكها أفراد العائلة الواحدة

Quiz_4

Quiz Question

Which of the below are measures of center (Check all that apply)?

- [x] Mean ✓
- [ ] Standard Deviation
- [ ] Variance
- [x] Median ✓
- [ ] Inter-quartile Range
- [x] Mode ✓
- [ ] Range
- [ ] Maximum
- [ ] Minimum

If we have the data:

5, 8, 15, 7, 10, 22, 3, 1, 15

What is the mean?

- ( ) 7
- (•) 9.56 ✓
- ( ) 15
- ( ) 8
- ( ) 8.5

Quiz_5

Quiz Question

If we have the data:

5, 8, 15, 7, 10, 22, 3, 1, 15

What is the median?

- ○ 7
- ○ 9.56
- ○ 15
- ◉ 8 ✓
- ○ 7.5

Quiz Question

If we have the data:

5, 8, 15, 7, 10, 22, 3, 1, 15, 2

What is the median?

- ○ 7
- ○ 9.56
- ○ 15
- ○ 8
- ◉ 7.5 ✓

Quiz_6

Quiz Question

We want to summarize the number of dogs our friends have into a single number. We will use the measures of center for this problem. Ashley has 1 dog, Steve has 1 dog, Jeff has 2 dogs, Kylie has 3 dogs, and Lisa has 8 dogs.

There is no best measure of center so we need to try all three to see what makes sense.

What is the mean, median, and mode for the number of dogs our friends have?

- (●) Mean: 3 Median: 2 Mode: 1 ✓
- ( ) Mean: 2 Median: 2 Mode: 8
- ( ) Mean: 3 Median: 3 Mode: 1
- ( ) Mean: 2 Median: 1 Mode: 8

Quiz Question

Check all of the below that are true with regards to our measures of center.

- [ ] The mode is the middle number in the dataset when the numbers are rank ordered.
- [x] The median is the middle number in the dataset when the numbers are rank ordered. ✓
- [ ] The mean is always the best measure of center for any dataset.
- [ ] The mean is always less than the median.
- [ ] The median is always the best measure of center for any dataset.
- [ ] The mode is always the best measure of center for any dataset.

Quiz Question

If we have the data:

5, 8, 15, 7, 10, 22, 3, 1, 15

What is the mode?

- ○ 7
- ○ 9.56
- ○ 9
- ● 15 ✓
- ○ 5

✓ These are the correct matches.

Measure	Value
Mean	9.83
Median	6.5
Mode	4
None of the Above	8

Quiz Question

If we have the data:

5, 8, 15, 7, 10, 22, 3, 1, 15, 10

Mark all statements that are true.

- [x] The mode is 15. ✓
- [ ] The mean is 15.
- [x] The mode is 10. ✓
- [ ] None of the above are true.

Quiz_7

Quiz Question

What type of variable is the random variable X in the video in the previous concept?

- ○ Categorical - Ordinal
- ○ Categorical - Nominal
- ◉ Quantitative - Continuous ✓
- ○ Quantitative - Discrete

Quiz Question

What type of variable is the random variable Y in the video in the previous concept?

- ○ Categorical - Ordinal
- ◉ Categorical - Nominal ✓
- ○ Quantitative - Continuous
- ○ Quantitative - Discrete

Quiz_8

These are the correct matches.

Notation	Value
A. (this refers to the letter with the corresponding notation above)	5
B. (this refers to the letter with the corresponding notation above)	Finance
C. (this refers to the letter with the corresponding notation above)	Full Time
D. (this refers to the letter with the corresponding notation above)	4

Quiz_9

These are the correct matches.

Letter	Value
A.	7
B.	56
C.	57
D.	8
E.	4

Quiz_10

These are the correct matches.

Notation Letter	Description
A	The notation for a random variable.
B	The notation for a random variable.
C	The notation for the first observed value of a random variable.
D	The notation for the number of rows in our dataset.
E	The notation for the sum of all the values in our dataset.

Quiz Question

If we wanted to provide notation for the mean of a particular dataset, which of the following letters would correspond to the notation attached to calculating the mean? (Mark all that apply.)

- [ ] A
- [x] B
- [x] C
- [x] D
- [x] E