R University Statistics Exam 2015-01-01

Exam ID 00002

Nar	ne:	-
Stu	dent ID:	-
Sig	nature:	
		-
1.	(a) X (b) (c) (d)	
2.	ratio	
3.	(a) X (b) X (c) (d) X (e) (f) (g)	(h)
4.	ratio	
5.	(a) (b) (c) X (d) (e) (f) (g) (g)	(h)
6.	ordinal	
7.	(a)	(h)
8.	ratio	
9.	(a) (b) \mathbf{X} (c) (d) (e) (f) \mathbf{G}	(h) X

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1. Problem

What is the level of measurement for a variable called eye_color with observations like blue, green, brown, . . . ?

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- (a) nominal
- (b) ordinal
- (c) interval
- (d) ratio

Solution

- (a) True. nominal
- (b) False. ordinal
- (c) False. interval
- (d) False. ratio

2. Problem

What is the level of measurement for variable = time in seconds with responses = numerical responses (e.g. 60, 72, 65, etc.)?

Solution

The level of measurement for variable = time in seconds with responses = numerical responses (e.g. 60, 72, 65, etc.) is ratio.

3. Problem

Which of the following statements about nominal level of measurement is correct?

- (a) This level of measurement divides observations into groups.
- (b) It is categorical.
- (c) The measurement has a meaningful zero.
- (d) It is the lowest level of measurement.
- (e) This level of measurement is often used for summary scores on psychometric instruments.
- (f) It is the next to lowest level of measurement.
- (g) The distance between the units of measurement is unknown.
- (h) It is the next to highest level of measurement.

Solution

- (a) True. This level of measurement divides observations into groups.
- (b) True. It is categorical.
- (c) False. The measurement has a meaningful zero.
- (d) True. It is the lowest level of measurement.
- (e) False. This level of measurement is often used for summary scores on psychometric instruments.
- (f) False. It is the next to lowest level of measurement.
- (g) False. The distance between the units of measurement is unknown.
- (h) False. It is the next to highest level of measurement.

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4. Problem

What is the level of measurement for variable = height in inches with responses = numerical responses with 2 decimal places (e.g. 60.00, 72.50, 65.25, etc.)?

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Solution

The level of measurement for variable = height in inches with responses = numerical responses with 2 decimal places (e.g. 60.00, 72.50, 65.25, etc.) is ratio.

Problem

Which of the following statements about interval level of measurement is correct?

- (a) This level of measurement divides observations into groups with order.
- (b) It is the highest level of measuremet.
- (c) This level of measurement is often used for summary scores on psychometric instruments.
- (d) This level of measurement divides observations into groups.
- (e) Meaningful ratios can be created with this level of measurement.
- (f) This level of measurement is often used for numerical measurements of tangible phenomena (e.g. time, height, weight, etc.)
- (g) It is the next to lowest level of measurement.
- (h) It is the lowest level of measurement.

Solution

- (a) False. This level of measurement divides observations into groups with order.
- (b) False. It is the highest level of measuremet.
- (c) True. This level of measurement is often used for summary scores on psychometric instruments.
- (d) False. This level of measurement divides observations into groups.
- (e) False. Meaningful ratios can be created with this level of measurement.
- (f) False. This level of measurement is often used for numerical measurements of tangible phenomena (e.g. time, height, weight, etc.)
- (g) False. It is the next to lowest level of measurement.
- (h) False. It is the lowest level of measurement.

6. Problem

What is the level of measurement for variable = order with responses = (first, second, third, fourth, greater than fourth)?

Solution

The level of measurement for variable = order with responses = (first, second, third, fourth, greater than fourth) is ordinal.

7. Problem

Which of the following statements about ratio level of measurement is correct?

- (a) This level of measurement divides observations into groups with order.
- (b) This level of measurement is often used for numerical measurements of tangible phenomena (e.g. time, height, weight, etc.)
- (c) Meaningful ratios can be created with this level of measurement.
- (d) It is the next to lowest level of measurement.

- (e) This level of measurement divides observations into groups.
- (f) This level of measurement is often used for summary scores on psychometric instruments.
- (g) It is continuous.
- (h) It is the next to highest level of measurement.

Solution

- (a) False. This level of measurement divides observations into groups with order.
- (b) True. This level of measurement is often used for numerical measurements of tangible phenomena (e.g. time, height, weight, etc.)
- (c) True. Meaningful ratios can be created with this level of measurement.
- (d) False. It is the next to lowest level of measurement.
- (e) False. This level of measurement divides observations into groups.
- (f) False. This level of measurement is often used for summary scores on psychometric instruments.
- (g) True. It is continuous.
- (h) False. It is the next to highest level of measurement.

8. Problem

What is the level of measurement for variable = height in inches with responses = numerical responses with 2 decimal places (e.g. 60.00, 72.50, 65.25, etc.)?

Solution

The level of measurement for variable = height in inches with responses = numerical responses with 2 decimal places (e.g. 60.00, 72.50, 65.25, etc.) is ratio.

9. Problem

Which of the following statements about ordinal level of measurement is correct?

- (a) It is the next to highest level of measurement.
- (b) The distance between the units of measurement is unknown.
- (c) It is the lowest level of measurement.
- (d) It is the highest level of measuremet.
- (e) There is a known distance between units of measurement.
- (f) This level of measurement is often used for summary scores on psychometric instruments.
- (g) This level of measurement divides observations into groups.
- (h) It is the next to lowest level of measurement.

Solution

- (a) False. It is the next to highest level of measurement.
- (b) True. The distance between the units of measurement is unknown.
- (c) False. It is the lowest level of measurement.
- (d) False. It is the highest level of measuremet.
- (e) False. There is a known distance between units of measurement.
- (f) False. This level of measurement is often used for summary scores on psychometric instruments.
- (g) True. This level of measurement divides observations into groups.
- (h) True. It is the next to lowest level of measurement.