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Unit 2 - Week 0

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Course outline

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Assignment Solution

Assignment 0

The due date for submitting this assignment has passed. **Due on 2019-02-04, 23:59 IST**
As per our records you have not submitted this assignment.

1) 1 point

Consider two events A and B in a sample space such that $P(A)=0.3$ and $P(B)=0.8$. Is it possible that the two events are disjoint?

- a. Yes
- b. No
- c. May be
- d. Incomplete data.

- a
- b
- c
- d

No, the answer is incorrect.

Score: 0

Accepted Answers:

b

2) 1 point

Assume that the probability of each kid in a family being a girl or boy is $\frac{1}{2}$. A family has three kids and it is observed that two of them are girls. What is the probability that third kid is also a girl?

- a. 0.5
- b. 0.25
- c. 0.33
- d. 0.75

- a

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Accepted Answers:

b

3)

1 point

A fair six-sided dice is rolled twice independently. What is the probability of getting 1 in a first roll but not getting 3 or 4 in the second roll?

a. $\frac{1}{9}$

b. $\frac{2}{9}$

c. $\frac{1}{3}$

d. $\frac{4}{9}$

 a b c d

No, the answer is incorrect.

Score: 0

Accepted Answers:

a

4)

1 point

Consider the statement " P : Two independent events are disjoint." Then

a. P is always Trueb. P is always Falsec. P is True if at least one event is impossible

d. The given information is incomplete

 a b c d

No, the answer is incorrect.

Score: 0

Accepted Answers:

c

5)

1 point

A box contains 4 blue, 2 red and 3 black balls. If 2 balls are drawn at random from the box, NO replaced and then another ball is drawn. What is the probability of drawing 2 blue balls and 1 black ball?

a. $\frac{5}{14}$

b. $\frac{2}{7}$

c. $\frac{1}{14}$

d. $\frac{1}{7}$

- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers:

a

6)

A die is rolled 3 times. What is the probability of getting 6 on at least one roll?

- a. $\frac{3}{216}$
 b. $\frac{41}{216}$
 c. $\frac{61}{216}$
 d. $\frac{91}{216}$

- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers:

d

7) Let A and B be two events such that $A \subset B$. Let $P(A) = a > 0$ and $P(B) = b$. Then **1 point**

- a. $a < b$
 b. $a > b$
 c. $a = b$
 d. data incomplete

- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers:

d

8)

1 point

Consider the observed data as 102, 56, 34, 99, 89, 101, 10 and 54. Find the median.

- a. 89
- b. 56
- c. 72.5
- d. 94

- a
- b
- c
- d

No, the answer is incorrect.

Score: 0

Accepted Answers:

c

9) Which among the following is a measure of variability of observations?

1 point

- a. Mean
- b. Range
- c. Correlation
- d. None of above

- a
- b
- c
- d

No, the answer is incorrect.

Score: 0

Accepted Answers:

b

10)

1 point

The standard deviation is affected by the P: Change of origin, Q: Change of scale.

- a. Only P is True
- b. Only Q is True
- c. Both P and Q are True
- d. Both P and Q are False

- a
- b
- c
- d

No, the answer is incorrect.

Score: 0

Accepted Answers:

b

End

