

Question **1**

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According to combination rule, if the total number of outcomes are 'r' and distinct outcome collection is 'n' then combinations are calculated as

- ☐ a. $n! / r!(n - r)!$
- ☐ b. $n! / r!(n + r)!$
- ☐ c. $r! / n!(n + r)!$
- ☐ d. $r! / n!(n - r)!$

Question **2**

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The largest value is 60 and the smallest value is 40 and the number of classes desired is 5 then the class interval is

- ☐ a. 4
- ☐ b. 25
- ☐ c. 15
- ☐ d. 20

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Question **3**

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If $P(A) = 0.5$, $P(B) = 0.6$, A and B are independent, find $P(A \text{ and } B)$.

- ☐ a. 0.35
- ☐ b. 0.4
- ☐ c. 0.3
- ☐ d. 0.5

Question **4**

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If $P(A) = 0.7$, $P(B|A) = 0.6$, $P(B|A') = 0.4$, find $P(A|B)$.

- ☐ a. $5/9$
- ☐ b. $7/9$
- ☐ c. $1/9$
- ☐ d. $8/9$

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Question **5**

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A bag contains 7 red marbles, 5 blue marbles, and 8 green marbles. If a marble is randomly selected from the bag, what is the **probability** that it is blue?

- ☐ a. 5/19
- ☐ b. 5/13
- ☐ c. 5/12
- ☐ d. 1/4

Question **6**

Not yet
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In what ways can measurement error become an ethical issue?

- ☐ a. All of choices is correct.
- ☐ b. A survey sponsor chooses leading questions that guide the respondent in a particular direction.
- ☐ c. An interviewer, through mannerisms and tone, purposely makes a respondent obligated to please the interviewer or otherwise guides the respondent in a particular direction
- ☐ d. A respondent willfully provides false information.

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Question **7**

Not yet
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The data based on workers salary is as 2500, 2700, 2600, 2800, 2200, 2100, 2000, 2900, 3000, 2800, 2200, 2500, 2700, 2800, 2600 and number of classes desired is 10 then width of class interval is

- ☐ a. 300
- ☐ b. 200
- ☐ c. 400
- ☐ d. 100

Question **8**

Not yet
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In statistics out of 100, the marks of 21 students in final exams are as 90, 95, 95, 94, 90, 85, 84, 83, 85, 81, 92, 93, 82, 78, 79, 81, 80, 82, 85, 76, 85 then mode of the data is

- ☐ a. 85
- ☐ b. 93
- ☐ c. 81
- ☐ d. 90

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Question **9**

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You want to know the mean income of the subscribers to a particular magazine. You draw a random sample of 100 subscribers and determine that their mean income is \$27,500. What are the population and the sample?

- ☐ a. The population is the subscribers to the magazine and the sample is 100 subscribers of the sample.
- ☐ b. The population is American people and the sample is 100 subscribers to the magazine.
- ☐ c. The population is the subscribers to the magazine and the sample is \$27,500.
- ☐ d. The population is any 100 subscribers and the sample is \$27,500.

Question **10**

Not yet
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The curve of cumulative frequency is also known as

- ☐ a. C-give
- ☐ b. B-give
- ☐ c. A-give
- ☐ d. Ogive

Question **11**

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An article reported the following data on oxygen consumption (mL/kg/min) for a sample of ten firefighters performing a fire-suppression simulation: 29.5, 49.3, 30.6, 28.2, 28.0, 26.3, 33.9, 29.4, 23.5, 31.6. Compute the sample standard deviation.

- ☐ a. 8.211
- ☐ b. 9.752
- ☐ c. 49.811
- ☐ d. 7.022

Question **12**

Not yet
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If $P(A) = 0.5$, $P(B) = 0.4$, $P(A|B) = 0.3$, find $P(A \text{ or } B)$.

- ☐ a. 0.9
- ☐ b. 0.6
- ☐ c. 0.78
- ☐ d. 0.5

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Question **13**

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Dinco Construction Company is determining whether it should submit a bid for a new shopping center. In the past, Dinco's main competitor, Cienco Construction Company, has submitted bids 65% of the time. If Cienco Construction Company does not bid on a job, the **probability** that Dinco Construction Company will get the job is 0.55. If Cienco Construction Company bids on a job, the **probability** that Dinco Construction Company will get the job is 0.3. What is the **probability** that Dinco Construction Company will get the job?

- ☐ a. 0.7
- ☐ b. 0.35
- ☐ c. 0.45
- ☐ d. 0.3875

Question **14**

Not yet
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The **probability** of second event in the situation if the first event has been occurred is classified as

- ☐ a. series **probability**
- ☐ b. joint **probability**
- ☐ c. conditional **probability**
- ☐ d. dependent **probability**

Question **15**

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If $P(A) = 0.4, P(B|A) = 0.3, P(B|A') = 0.2$, find $P(A' \text{ and } B')$.

- ☐ a. 0.08
- ☐ b. 0.12
- ☐ c. 0.06
- ☐ d. 0.48

Question **16**

Not yet
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Fill in the blank with the best option: The time it takes to download a video from the Internet is.....

- ☐ a. a continuous numerical variable
- ☐ b. a discrete numerical variable
- ☐ c. a categorical variable
- ☐ d. a numerical variable

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Question **17**

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If $P(A) = 0.7, P(B|A) = 0.6, P(B|A') = 0.4$, find $P(B)$.

- ☐ a. 0.4
- ☐ b. 0.5
- ☐ c. 0.35
- ☐ d. 0.54

Finish attempt ...