Answer Submitted.
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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Data Science for Engineers (course)

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Week 3 :Assignment 3 (Non Graded)

Your last recorded submission was on 2021-09-14, 19:08 IST
Note : This assignment is only for practice purpose and it will not be counted towards the Final score

1) In a Covid containment zone, it is identified that an individual is tested through a   **1 point**
standard testing procedure to get the test result as positive
      with a probability of 50% given that individual is infected with Covid. Let's assume that the probability of an individual (X) to get infected
      by Covid in the zone is also 50%. It is given that the probability of individuals who are tested positive in the zone is 80%. With this
      information, what is the probability of an individual to get infected by Covid if that individual is tested positive through the standard
      testing procedure?

○ ~ 50%

◉ ~ 80%

○ 100%

○ ~31%

No, the answer is incorrect.
Score: 0
Accepted Answers:
~31%

2) The probability of rolling 2 dice simultaneously to get a sum which is a prime   **1 point**
number:

○ 1/6

◉ 5/12

○ 1/24

○ 17/36

Yes, the answer is correct.
Score: 1
Accepted Answers:
5/12

3) State whether the following statements are true or false   **1 point**

     I - A deterministic phenomenon is one whose outcome can be predicted with high degree of confidence.

     II - A stochastic phenomenon is one whose outcome can be predicted with limited confidence.

○ I - False, II – True

◉ I - True, II – False

○ I - False, II – False

○ I - True, II – True

No, the answer is incorrect.
Score: 0
Accepted Answers:
I - True, II – True

4) A bowl contains three coins, two of which are normal coins and one coin has head   **1 point**
on both sides and is biased. A coin is picked at random and
    tossed. What is the probability of getting head?

○ 1

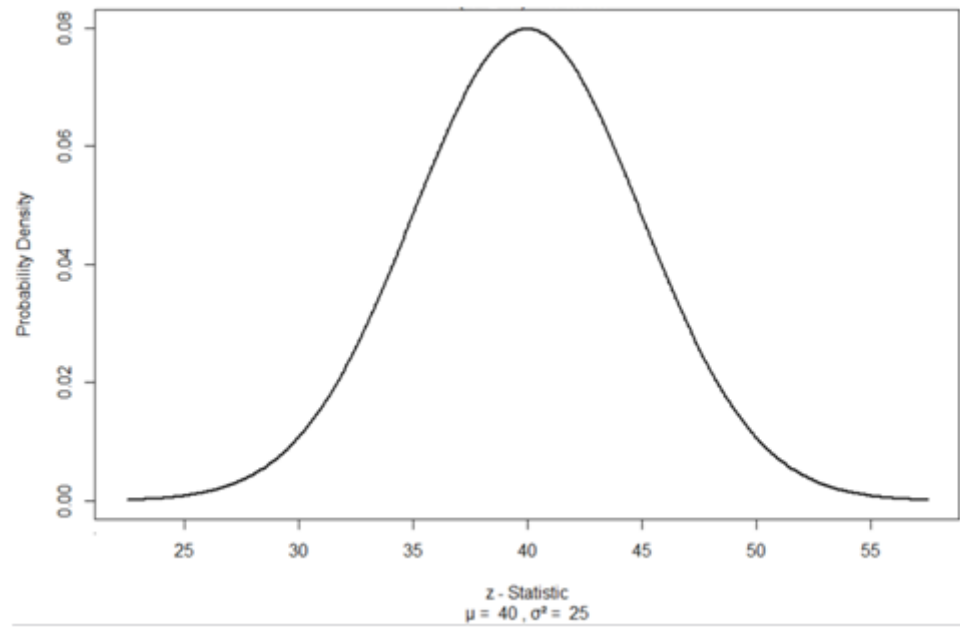◉ 1/2

○ 2/3

○ 3/4

No, the answer is incorrect.
Score: 0
Accepted Answers:
2/3

5) A normal distribution has a mean of 40 and standard deviation of 5.   **1 point**

z - Statistic
$\mu = 40 , \sigma^2 = 25$

68% of the distribution can be found between what two numbers?

- ○ 30 and 50
- ○ 0 and 45
- ○ 0 and 68
- ● 35 and 45

Yes, the answer is correct.
Score: 1

Accepted Answers:
35 and 45

Check Answers and Submit

Your score is: 2/5