

Week 3 :Assignment 3 (Non Graded)

Assignment not submitted
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 standard testing procedure to get the test **1 point** 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 number: **1 point**

- ☐ 1/6
- ☐ 5/12
- ☐ 1/24
- ☒ 17/36

No, the answer is incorrect.
Score: 0
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

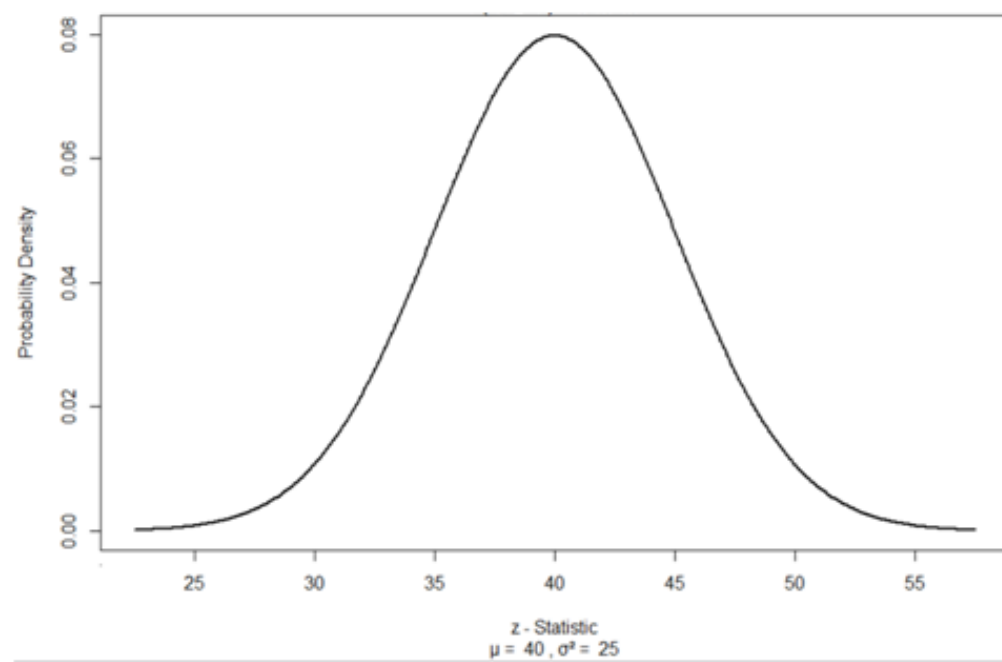
No, the answer is incorrect.
Score: 0
Accepted Answers:
I - True, II – True

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

- ☐ 1
- ☐ 1/2
- ☒ 2/3
- ☐ 3/4

Yes, the answer is correct.
Score: 1
Accepted Answers:
2/3

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



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

- ☒ 30 and 50
- ☐ 0 and 45
- ☐ 0 and 68
- ☐ 35 and 45

No, the answer is incorrect.
Score: 0

Accepted Answers:
35 and 45

Check Answers and Submit

Your score is: 1/5