

Answer Submitted.

X


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anikets349@gmail.com ▾

[NPTEL \(https://swayam.gov.in/explorer?ncCode=NPTEL\)](https://swayam.gov.in/explorer?ncCode=NPTEL) » Data Science for Engineers (course)
Course
outlineHow does an
NPTEL online
course work?

Setup Guide

Pre Course
Material

Week 0

Week 1

Week 2

Week 3

☐ Statistical
Modelling
(unit?
unit=48&lesson=49)

☒ Random
Variables and
Probability
Mass/Density
Functions
(unit?
unit=48&lesson=50)

☒ Sample
Statistics

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 standard testing procedure to get the test result as positive **1 point**
 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

(unit?
unit=48&lesson=51)

☐ Hypotheses
Testing (unit?
unit=48&lesson=52)

☐ FAQ (unit?
unit=48&lesson=53)

☐ Week 3
Feedback
Form: Data
Science for
Engineers
(unit?
unit=48&lesson=54)

☒ **Practice:
Week 3
:Assignment
3 (Non
Graded)
(assessment?
name=122)**

☒ Quiz: Week 3:
Assignment 3
(assessment?
name=131)

☒ Week 3:
Solutions
(unit?
unit=48&lesson=138)

Week 4

Week 5

Week 6

Week 7

Week 8

Text Transcripts

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Videos**

Books

☐ 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 on both sides and is biased. A coin is picked at random and tossed. What is the probability of getting head? **1 point**

☐ 1

☒ 1/2

☐ 2/3

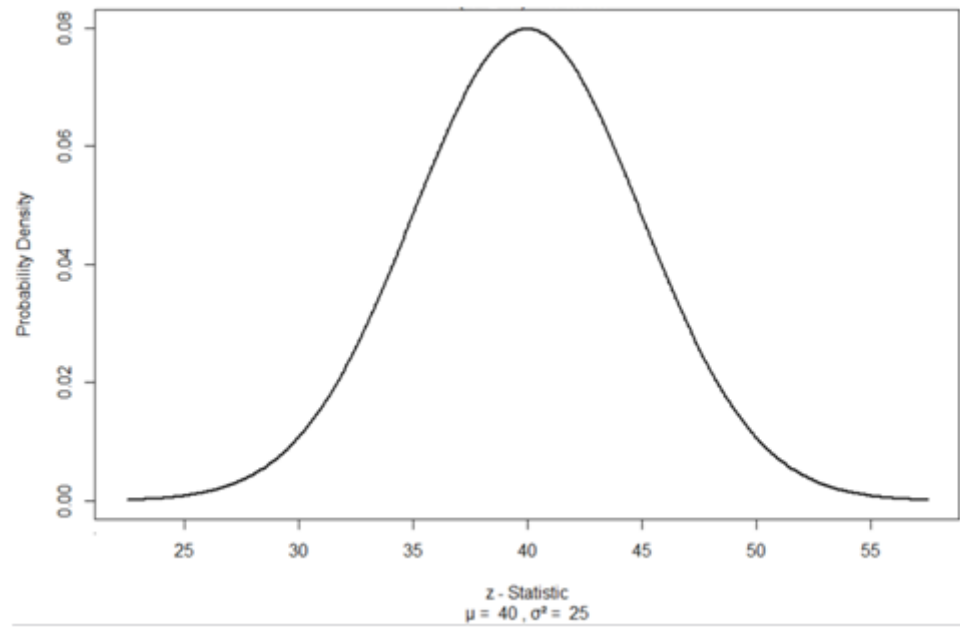
☐ 3/4

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



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