



Principles of Probability

Started on	Monday, 20 March 2023, 7:30 PM
State	Finished
Completed on	Monday, 20 March 2023, 7:43 PM
Time taken	13 mins 38 secs
Marks	6.00/6.00
Grade	10.00 out of 10.00 (100%)

Question 1

Correct
Mark 4.00 out of 4.00
Flag question

Estimated time: 7 mins

In a city, 80 % of inhabitants are males, 10% of females are infected with COVID-19, while 20% of males are infected with COVID-19. We select randomly one person from the city.

1. Find the probability that the selected person is infected with COVID-19. Write the value only in decimal form.

Answer:

0.18



2. Given that the selected person was infected by COVID-19, find the probability that this person is male. Round your answer to two decimal places.

Answer:

0.89



Question 2

Correct
Mark 2.00 out of 2.00
Flag question

Suppose that of all individuals buying a certain digital camera, 60% include an optional memory card in their purchase, 40% include an extra battery, and 30% include both a card and battery. Consider randomly selecting a buyer and let A = {memory card purchased} and B = {battery purchased}.

Given that the selected individual purchased an extra battery, the probability that an optional card was also purchased is

- ☐ $P(B|A) = 0.75$
☐ $P(A|B) = 0.5$
☒ $P(A|B) = 0.75$ ✓
☐ $P(B|A) = 0.5$

The correct answer is: $P(A|B) = 0.75$

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