Module 2 Quiz

Adapt 70

1/1 point (graded)

You have a group of 12 products. You know that 3 are defective. If you select one product, what is the probability that you will select a defective product?

- (●) 1/4 ✔
- ( ) 1/3
- ( ) 1/2
- ( ) 3/4

Submit You have used 1 of 1 attempt

Adapt 78

1/1 point (graded)

You have a standard deck of 52 cards (i.e., 4 aces, 4 twos, 4 threes, ..., 4 tens, 4 jacks, 4 queens, and 4 kings) that contains 4 suits (hearts, clubs, spades, and diamonds). We draw one card from the deck. What is the probability that the card is NEITHER a face card (jack, king, or queen) NOR a heart?

- 27/52
- 30/52 ✔
- 37/52
- 40/52

Submit You have used 1 of 1 attempt

Adapt 87

1/1 point (graded)

You have a standard deck of 52 cards (i.e., 4 aces, 4 twos, 4 threes, ..., 4 tens, 4 jacks, 4 queens, and 4 kings) that contains 4 suits (hearts, clubs, spades, and diamonds). We draw one card from the deck. What is the probability that the card is an ace or a heart?

- 12/52
- 15/52
- 16/52 ✔
- 18/52

Submit You have used 1 of 1 attempt

Adapt 92

1/1 point (graded)

You have a group of 12 products. You know that 3 are defective. If 3 are drawn at random without replacement, what is the probability that none of them are defective?

- .25
- .33
- .38 ✔
- .42

Submit You have used 1 of 1 attempt

Adapt 110

1/1 point (graded)

Four employees who work as drive-through attendees at a local fast food restaurant are being evaluated as a part of quality improvement initiative; these workers were observed over three days. One of the statistics collected is the proportion of time employee remembers to include a coupon for the next purchase in the bag (as above).

Worker	% of Meals Bagged	% Remembered Coupon
Pat	25%	94%
Taylor	20%	98%
Sinead	20%	90%
Samir	35%	96%

What is the probability that on a randomly chosen visit Pat bagged your meal and forgot to include a coupon?

- .004
- .014
- .015 ✔
- .020

Submit You have used 1 of 1 attempt

Adapt 113

1/1 point (graded)

Forty percent (40%) of all MBAs received an A in operations, and 45% received an A in statistics. Twenty percent (20%) of all MBAs received an A in both classes. What is the probability that a randomly chosen MBA did not get an A in either of these classes?

- 0.15
- 0.20
- 0.25
- 0.35 ✔

Submit You have used 1 of 1 attempt

Adapt 120

1/1 point (graded)

Ninety percent (90%) of an insurance company's policyholders are low risk and 10% are high risk. Assume that each policyholder has either 0 or 1 accident in a year. Assume 75% of high risk policyholders have an accident in a year and 10% of low risk policyholders have an accident in a year. If we randomly pull a policyholder's accident report, what is the chance the policyholder was high risk?

- 0.33
- 0.45 ✔
- 0.55

- 0.66

Submit You have used 1 of 1 attempt

Adapt 127

1/1 point (graded)

At a certain university, 30% of the students major in zoology. Of the students majoring in zoology, 60% are males. Of all the students at the university, 70% are males. What is the probability that one randomly selected student is a male or is majoring in zoology?

- 48%
- 70%
- 82% ✔
- 88%

Submit You have used 1 of 1 attempt

Adapt 136

1/1 point (graded)

Given the standard deck of cards, what is the probability of drawing a red card, given that it is a face card?

- 4/52
- 13/52
- 26/52 ✔

Submit You have used 1 of 1 attempt

Adapt 140

1/1 point (graded)

Four employees who work as drive-through attendees at a local fast food restaurant are being evaluated as a part of quality improvement initiative; these workers were observed over three days. One of the statistics collected is the proportion of time employee remembers to include a coupon for the next purchase in the bag.

Worker	% of Meals Bagged	% Remembered Coupon
Pat	25%	94%
Taylor	20%	98%
Sinead	20%	90%
Samir	35%	96%

You receive your meal, but it does not contain the coupon. What is the probability that Samir bagged your meal?

- 4.0%
- 26.4% ✔
- 33.6%
- 35.5%

Submit You have used 1 of 1 attempt

Adapt 146

0/1 point (graded)

An urn contains three white balls and three black balls. Let B1= Event that the first ball is black, and B2 = Event that the second ball is black. If a ball is drawn but not replaced, then P(B2|B1) =

- 1/4 ✖
- 1/2
- 1/3
- 2/5

Submit You have used 1 of 1 attempt