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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

✓ Correct (1/1 point)

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

✓ Correct (1/1 point)

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

You have used 1 of 1 attempt

✓ Correct (1/1 point)

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

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Adapt 110

0/1 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 ✖

You have used 1 of 1 attempt

✖ Incorrect (0/1 point)

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

✓ Correct (1/1 point)

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

You have used 1 of 1 attempt

✓ Correct (1/1 point)

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%

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Adapt 136

0/1 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

✗ Incorrect (0/1 point)

Adapt 140

0/1 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

✖ Incorrect (0/1 point)

Adapt 146

1/1 point (graded)

An urn contains three white balls and three black balls. Let B_1 = Event that the first ball is black, and B_2 = Event that the second ball is black. If a ball is drawn but not replaced, then $P(B_2 | B_1) =$

☐ 1/4☐ 1/2☐ 1/3☒ 2/5 ✓

You have used 1 of 1 attempt

✓ Correct (1/1 point)

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