

Test 2

True or False :

1a) The probability which comes from the fact that you believe that you have a 1/2 chance of drawing a red card from a standard deck of cards is empirical probability. FALSE

b) The events "not shutting off the water in the kitchen sink" and "receiving a high water bill" are not independent. TRUE

c) The events "choosing a student who is male or a finance major from a nearby university to participate in a research study", are mutually exclusive. FALSE

d) $8! = 20160$. False

2) Suppose the local shop makes dining room tables in three shapes and in three different finishes. Their production of the last six months is summarized in the following table:

Suppose one table is selected at random, Find the following:

A) $P(\text{the table is oval}) = 177/400$ B) $P(\text{the table is pine or rectangular}) = 101/47 + 26/400 = 177/400$ C) $P(\text{the table is round and mahogany}) = 43/400$ D) $P(\text{the table is oak} \mid \text{it is round}) = 52/129$ E) $P(\text{the table is oval} \mid \text{it is mahogany}) = 62/152$.
3) A coordinator will select 7 songs from a list of 13 songs to compose an event's musical entertainment lineup. How many different lineups are possible?
A: ${}^{13}P_7 = 8648640$

Test 2 (cont)

> 6) A box contains 16 white marbles and 12 green marbles. If two are drawn without replacement, what is the probability that they are both green? - $12/28 * 11/27 = 132/756$.

7) The local restaurant is offering a dinner special that includes an appetizer, an entree, and a dessert. If there are 5 different appetizers to choose from, 11 different entrees, and 4 different desserts, how many different specials are possible? - $5 * 11 * 4 = 220$

info3

True or False :

1a) The probability which comes from the fact that you believe that you have a 1/2 chance of drawing a red card from a standard deck of cards is empirical probability. FALSE

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d) $8! = 20160$. False

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info3 (cont)

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info2

True or False :

1a) The probability which comes from the fact that you believe that you have a 1/2 chance of drawing a red card from a standard deck of cards is empirical probability. FALSE

b) The events "not shutting off the water in the kitchen sink" and "receiving a high water bill" are not independent. TRUE



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info2 (cont)

> c) The vents "choosing a student who is male or a finance major from a nearby university to participate in a research study", are mutually exclusive. FALSE

d) $8! = 20160$. False

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Suppose one table is selected at random, Find the following:

A) $P(\text{the table is oval}) = 177/400$ B) $P(\text{the table is pine or rectangular}) = 101 + 47 + 26/400 = 177/400$ C) $P(\text{the table is round and mahogany}) = 43/400$ D) $P(\text{the table is oak} \mid \text{it is round}) = 52/129$ E) $P(\text{the table is oval} \mid \text{it is mahogany}) = 62/152$.

3) A coordinator will select 7 songs from a list of 13 songs to compose an event's musical entertainment lineup. How many different lineups are possible? A: $13 \times 12 \times 11 \times 10 \times 9 \times 8 \times 7 = 8648640$

6) A box contains 16 white marbles and 12 green marbles. If two are drawn without replacement, what is the probability that they are both green? - $12/28 \times 11/27 = 132/756$.

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info4

True or False :

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info4 (cont)

6) A box contains 16 white marbles and 12 green marbles. If two are drawn without replacement, what is the probability that they are both green? - $12/28 \times 11/27 = 132/756$.

7) The local restaurant is offering a dinner special that includes an appetizer, an entree, and a dessert. If there are 5 different appetizers to choose from, 11 different entrees, and 4 different desserts, how many different specials are possible? - $5 \times 11 \times 4 = 220$

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Info (cont)

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info5

True or False :

1a) The probability which comes from the fact that you believe that you have a $1/2$ chance of drawing a red card from a standard deck of cards is empirical probability. FALSE

b) The events "not shutting off the water in the kitchen sink" and "receiving a high water bill" are not independent. TRUE

info5 (cont)

c) The vents "choosing a student who is male or a finance major from a nearby university to participate in a research study", are mutually exclusive. FALSE
d) $8! = 20160$. False

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