

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 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
- 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) $P(\text{the table is oak | it is round}) = 52/129$ E) $P(\text{the table is oval | it is mahogany}) = 62/152$.
- 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: ${}^{13}P_7 = 8648640$
- 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

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Not published yet.

Last updated 18th March, 2015.

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info4

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