PENROSE

Penrose GED Prep

(a) 1/4

4.2 Dependent and Independent Probability Solutions

1 * If Marie flips a coin and it lands heads, what is the probability that it will land tails on the next flip?

This is the solution key to the dependent and independent probability worksheet.

(b) $1/2$
(c) $1/6$
(d) 1/8
Solution: b
Using the following information to answer questions 3 and 4 . There are 4 green marbles, 2 blue marbles and 2 red marbles in a bag
2 What is the probability of choosing two blue marble?
 (a) 1/28 (b) 1/4 (c) 1/8 (d) 1/56
Solution: a
3 If the first marble drawn is green, what is the probability that the second one is blue?
 (a) 1/8 (b) 2/7 (c) 2/5 (d) 1/4
Solution: b
4 Leah rolls two dice. What is the probability that both will be one?
 (a) 1/6 (b) 1/12 (c) 3/4 (d) 1/36
Solution: d
Oliver flips a coin three times
5 What is the probability of it landing tails three times?
 (a) 1/3 (b) 2/3 (c) 1/8
Solution: c



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6 What is the probability of it landing heads, tails, and then tails again?

 (a) 1/3 (b) 2/3 (c) 1/8
Solution: c
Chantel picks a face card from a deck of cards.
7 If she picks a second card, what is the probability that it is a face card?
 (a) 11/51 (b) 12/51 (c) 15/51 (d) 13/51
Soluion: a
8 What is the probabilty that the second card Chantel picks is a 3?
 (a) 1/13 (b) 11/51 (c) 4/51 (d) 1/51
Solution: c
9 Moriah picks two cards for a deck of cards. What is the probability that the first is a heart and the second a spade?
 (a) 13/204 (b) 1/204 (c) 1/169 (d) 4/169
Solution: a
10 If there are three broken computers and 6 working computers in library, what is the probability of selecting broken computers in a row?
 (a) 1/6 (b) 1/9 (c) 1/12 (d) 4/9
Solution: c
11 * There is a game show with a million dollar prize. A contestant must randomly choose one of ten bag but only one has the prize. The game is played until one contestant wins. What is the chance that the 6 contestant will win?
 (a) 4/5 (b) 2/5 (c) 3/5 (d) 1/10
Solution: d