Theoretical and Experimental Probability Bell Work

Solve problems involving Theoretical Probability.

1. What is the probability of getting an odd number in tossing a die?

2. What is a probability of drawing a black card in a 52 deck of card?

3. What is the probability of drawing a queen in 52 deck of card?

In rolling a pair of dice

4. What is the probability of getting a sum of 5?	
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5. What is the probability of getting a sum greater than 9?

In tossing a coin

ng both head?
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Theoretical and Experimental Probability Bell Work

From a deck of cards, two cards are drawn at random. What is the probability that:

8. All two are jack?

9. All two are hearts?

10. All red black?

Theoretical and Experimental Probability Bell Work

Answer:

Solve problems involving Theoretical Probability.

1. What is the probability of getting an odd number in tossing a die? P(E) = 3/6 or ½

2. What is a probability of drawing a black card in a 52 deck of card? P (E) = 26/ 52 or ½

3. What is the probability of drawing a queen in 52 deck of card? P (E) = 4/52 or 1/13

In rolling a pair of dice

4. What is the probability of getting a sum of 5? $n(S) = 36; n(E) = {(1,4), (4,1), (3,2), (2,3)} = 5, P(E) = 4/36 \text{ or } 1/9$

5. What is the probability of getting a sum greater than 9? $n(S) = 36; n(E) = {(5,5), (6,4), (4,6), (6,5), (5,6), (6,6)} = 6, P(E) = 6/36 \text{ or } 1/6$

In tossing a coin

6. What is the probability of getting both tails? n(S) = 4; n(E) = 1, then P(E) = 1/4

7. What is the probability of not getting both head? n(S) = 4; n(E) = 3, then P(E) = 3/4

From a deck of cards, two cards are drawn at random. What is the probability that:

8. All two are jack? $n(S) = {}_{52}C_2 = 1326$ $n(E) = {}_4C_2 = 6$ P(E) = 6/1326 or 1/221

9. All two are hearts? $n(S) = {}_{52}C_2 = 1326$ $n(E) = {}_{13}C_2 = 78$ P(E) = 78/1326 or 1/17 10. All red black? $n(S) = {}_{52}C_2 = 1326$ $n(E) = {}_{26}C_2 = 325$ P(E) = 325/1326 or 25/102

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