

Quiz: Theoretical and Empirical Probabilities

1 You roll a six sided die (with numbers eleven through sixteen). What is the probability that the value of roll will be multiple of five or eleven? $1/3$

2 Tom has 3 red T-shirts, 2 blue T-shirts and 7 shirts in his wardrobe. What is the probability of selecting a T-shirt from his wardrobe? $5/12$

3 A bag of cookies contains 6 chocolate chip cookies, 6 peanut butter cookies, and 7 oatmeal cookie. Brandon selects 2 cookies at random. Find the probability of selecting 2 chocolate chip cookies.

4 What is the probability that you will pick a king or a jack in a row out of a 52- card deck? $2/13$

5 Use a fraction to express the probability that T or N is selected from the word NATIONAL. $3/8$

6 A number cube has 6 sides. The sides are numbered 1 to 6. If the cube is thrown once, what is the probability of rolling 6 and multiple of 3? $1/6$

7 A bag of cookies contains 8 chocolate chip cookies, 2 peanut butter cookies, and 5 oatmeal cookie. Brandon selects 2 cookies at random. Find the probability of selecting 2 chocolate chip cookies.

8 A jar contains 9 balls: 3 are red, 3 are blue and 3 are green. What is the probability that one will pick a green or red ball? $1/3$

9 One card is chosen at random from a deck. What is the probability of getting a club or a red card? $3/4$

10 Out of 250 plants, 70 had red flowers, 50 had yellow flowers and 130 had green flowers. Find the probability of choosing a plant with red flowers or yellow flowers. $12/25$

Circle # Correct	0	1	2	3	4	5	6	7	8	9	10
Percentage Score	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%