

1. When a coin is tossed 5 times, how many possible outcomes are expected to be listed in the sample space?

32

2. A bag contains 4 red balls, 3 blue balls and 5 yellow balls. If a ball is selected at random, find the probability that the ball will be blue or yellow.

0.6667

3. An urn contains 10 balls of equal size but distinguishable only by colour. 5 of the balls are blue, 3 are red and 2 are green. If a ball is selected at random, what is the probability that it will be a white ball?

0

4. If the probability that it may rain tomorrow is $\frac{2}{5}$, what is the probability that it may not rain?

60%

5. Consider the composition of a 3-child family in which the children were born at different times but a girl is as likely as a boy at each birth. What is the probability that the oldest child and the youngest child are of the same gender?

$\frac{1}{2}$

6. An experiment involves studying the composition of genders of a set of triplets. What is the probability that there are 2 boys and a girl in the set?

$\frac{3}{8}$

7. A coin is flipped and a die is rolled. Find the probability of getting a tail on the coin and a 3 on the die.

$\frac{1}{12}$

8. There are basically two types of random variables; discrete and _____ random variables.

Continuous

9. How many different permutations can be made from the letters in the word "CHICHARITO"?

453,600

10. Which of the following statements is not an example of a discrete random variable?
The age of male respondents to a questionnaire about gender differences

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