

Probability Worksheet-1

Question 1.

Write the sample space for these experiments

- a) Throwing two dice
- b) Throwing two coins
- c) Throwing coin three times and writing the output
- d) A die is thrown repeatedly until a six comes up
- e) A coin is tossed until head comes up
- f) A die is numbered in such a way that its faces show the numbers 1,2,2, 3, 3, 6. It is thrown twice and

the total score in two throws is noted

Question 2.

A box contains 12 balls out of which x are black. If one ball is drawn at random from the box what is the probability that it will be a black ball? If 6 more black balls are put in the box, the probability of drawing a black ball is now double of what it was before. Find x .

Question 3

A box contains 24 balls. Some are blue and the others are green. If a ball is drawn at random, the probability that it is green is $\frac{3}{2}$. Find the number of blue balls and green balls in the box

Question 4

Which of the following cannot be the probability of an event?

- (a) $\frac{1}{4}$
- (b) 0.6
- (c) 5 %
- (d) $\frac{20}{19}$

Question 5

True and False statement

- a) The probability of getting a number between 1 and 25 which is prime is $\frac{9}{23}$
- b) Probability of impossible event is 1
- c) Probability of any event lies between 0 and 1
- d) The probability of the occurrence of an event is always one minus the probability that it doesn't occur.

Question 6

Two dice are rolled, find the probability that the sum is

- a) equal to 1
- b) equal to 4
- c) less than 13

Question 7

A die is rolled and a coin is tossed, find the probability that the die shows an odd number and the coin shows a head.

Answer

2) $x=3$

- 5)
- a) true
- b) False
- c) true
- d) True

6) $0, \frac{1}{12}, 1$

7) $\frac{1}{4}$