If two dies are toced together what is the probability of having sum of 5 as the outcome.

a. 1/9 b. 1/6 c. 1/8 d. 1/10

Solution

The number of all possible variants

$$N = 6 * 6 = 36.$$

We list all the possibilities

$$(1,4), (2,3), (3,2), (4,1).$$

The number of variants with sum of 5

$$N_5 = 4.$$

The probability of having sum of 5 as the outcome

$$P(5) = \frac{N_5}{N} = \frac{4}{36} = \frac{1}{9}.$$

Answer: a. 1/9.