If two dies are tossed together, what is the probability of having equal outcomes.

a. 1/6 b. 5/36 c. 1 d. 6

Solution

The number of all possible variants

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

We list all the possibilities

$$(1,1), (2,2), (3,3), (4,4), (5,5), (6,6).$$

The number of equal outcomes

$$N_{eq} = 6.$$

The probability of having equal outcomes

$$P(equal) = \frac{N_{eq}}{N} = \frac{6}{36} = \frac{1}{6}.$$

Answer: a. 1/6.