



# Probability Sample Space - Sample Space Definition and Favourable Outcomes Count to Probability

1

What is the probability of getting a favourable outcome?

Two fair six-sided dice are rolled. A favourable outcome is one where the total is exactly 5. There are 4 favourable outcomes.

A	$\frac{1}{9}$	B	$\frac{5}{36}$
C	$\frac{1}{8}$	D	$\frac{8}{9}$

Three fair six-sided dice are rolled. A favourable outcome is one where the total is less than 5. There are 4 favourable outcomes.

A	$\frac{5}{216}$	B	$\frac{1}{53}$
C	$\frac{1}{54}$	D	$\frac{53}{54}$

3

What is the probability of getting a favourable outcome?

Four fair coins are flipped. A favourable outcome is one where there is exactly one head. There are 4 favourable outcomes.

A	$\frac{3}{4}$	B	$\frac{1}{4}$
C	$\frac{5}{16}$	D	$\frac{1}{3}$

4

What is the probability of getting a favourable outcome?

A fair coin is flipped and a spinner with red, green, and blue sections is spun. A favourable outcome is one where the spinner shows red. There are 2 favourable outcomes.

A	$\frac{1}{3}$	B	$\frac{2}{3}$
C	$\frac{1}{2}$	D	$\frac{1}{6}$

5

What is the probability of getting a favourable outcome?

A spinner with three equal-sized sections coloured red, green, and blue is spun three times. A favourable outcome is one where there is exactly one blue. There are 12 favourable outcomes.

A	$\frac{4}{5}$	B	$\frac{9}{4}$
C	$\frac{5}{9}$	D	$\frac{4}{9}$

6

What is the probability of getting a favourable outcome?

A spinner with three equal-sized sections coloured red, green, and blue is spun three times. A favourable outcome is one where there is no blue. There are 8 favourable outcomes.

A	$\frac{8}{27}$	B	$\frac{27}{8}$
C	$\frac{8}{19}$	D	$\frac{19}{27}$

7

What is the probability of getting a favourable outcome?

Three fair six-sided dice are rolled. A favourable outcome is one where the total is more than 6. There are 196 favourable outcomes.

A	$\frac{54}{49}$	B	$\frac{49}{54}$
C	$\frac{5}{54}$	D	$\frac{49}{5}$

8

What is the probability of getting a favourable outcome?

A fair coin is flipped and a spinner with red, green, and blue sections is spun. A favourable outcome is one where the spinner shows blue. There are 2 favourable outcomes.

A	$\frac{1}{3}$	B	$\frac{1}{6}$
C	$\frac{2}{3}$	D	$\frac{1}{2}$