



Probability Sample Space - Definition to Favourable Outcomes List

1

List all the favourable outcomes.

A spinner with three equal-sized sections coloured red, green, and blue is spun twice. A favourable outcome is one where there is at least one green.

A
RG GR GG GB BG

B
GG GB BG BB

2

List all the favourable outcomes.

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 green.

A
(H,G) (T,G) (H,G) (T,G)

B
(H,G) (T,G)

3

List all the favourable outcomes.

Two fair coins are flipped. A favourable outcome is one where there is exactly one tail.

A
HT TH HT TH

B
HT TH

4

List all the favourable outcomes.

Three fair coins are flipped. A favourable outcome is one where there are exactly two tails.

A
HTT THT TTH

B
HTT THT TTH HTT THT TTH

5

List all the favourable outcomes.

Three fair coins are flipped. A favourable outcome is one where there is exactly one tail.

A
HHT HTH THH

B
HTT THT TTH TTT

6

List all the favourable outcomes.

A spinner with three equal-sized sections coloured red, green, and blue is spun three times. A favourable outcome is one where there is at least one red.

A	B
RRR RRG RRB RGR RGG	RRG RRB RRB RGG RGB
RGB RBR RBG RBB GRR	RGB RBG RBB RBB GRG
GRG GRB GGR GBR BRR	GRB GRB GGG GBG BRG
BRG BRB BGR BBR	BRB BRB BGG BBG

7

List all the favourable outcomes.

A fair six-sided die is rolled and a spinner with red, green, and blue sections is spun. A favourable outcome is one where the spinner shows blue.

A
(1,B) (2,B) (3,B) (4,B) (5,B) (6,B)

B
(2,B) (3,B) (4,B) (5,B) (6,B)

8

List all the favourable outcomes.

A fair coin is flipped and a fair six-sided die is rolled. A favourable outcome is one where the die shows a 4.

A
(H,4)

B
(H,4) (T,4)