



# Probability Sample Space - Definition to Favourable Outcomes List

1

List all the favourable outcomes.

Two fair six-sided dice are rolled. A favourable outcome is one where the total is less than 5.

A	(1,1)	(1,2)	(1,3)	(2,1)	(2,2)		
B	(1,2)	(1,3)	(2,1)	(2,2)	(3,1)		
C	(1,1)	(1,2)	(1,3)	(2,1)	(2,2)	(3,1)	
D	(1,1)	(1,2)	(1,3)	(2,1)	(2,2)	(3,1)	(1,4)

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 coin shows tails.

A	(T,R)	(T,G)	(T,B)	(H,R)
B	(T,R)	(T,G)	(T,B)	
C	(T,R)	(T,G)		
D	(T,G)	(T,B)		

3

List all the favourable outcomes.

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

A	HT	B	HT TH
C	HT TH HH	D	TH

4

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	GR	GG	GB	BG		
B	RG	GR	GG	GB	BG	
C	RG	GR	GG	GB		
D	RG	GR	GG	GB	BG	RR

5

List all the favourable outcomes.

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

A	HHTT	HTHT	HTTH	THHT	THTH	TTHH	HHHH
B	HHTT	HTHT	HTTH	THHT	THTH	TTHH	
C	HTHT	HTTH	THHT	THTH	TTHH		
D	HHTT	HTHT	HTTH	THHT	THTH		

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 exactly one red.

A	RGB	RBG	RBB	GRG	GRB	BGB	BBR	
B	RBG	RBB	GRG	GRB	BGB	BBR		
C	RGB	RBG	RBB	GRG	GRB	BGB	BBR	
D	RGB	RBG	RBB	GRG	GRB	BGB	BBR	RRR

7

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 no red.

A	GGB	GGB	GGB	BGG	BGG	BGG	BBG	BBG
B	GGB	GGB	GGB	BGG	BGG	BBG	BBG	
C	GGB	GGB	BGG	BGG	BGG	BBG	BBG	
D	GGB	GGB	GGB	BGG	BGG	BBG	BBG	RRR

8

List all the favourable outcomes.

Two fair six-sided dice are rolled. A favourable outcome is one where the total is more than 8.

A	(4,5)	(4,6)	(5,4)	(5,5)	(5,6)	(6,3)	(6,4)	(6,5)	(6,6)	
B	(3,6)	(4,5)	(4,6)	(5,4)	(5,5)	(5,6)	(6,3)	(6,4)	(6,5)	
C	(4,5)	(4,6)	(5,4)	(5,5)	(5,6)	(6,3)	(6,4)	(6,5)	(6,6)	
D	(3,6)	(4,5)	(4,6)	(5,4)	(5,5)	(5,6)	(6,3)	(6,4)	(6,5)	(6,6)