



# Probability Events - Scenario and Two Events to Is Mutually Exclusive

1

A fair six-sided die is rolled and a spinner with red, green, and blue sections is spun. Event A: The die shows a number greater than 4. Event B: The spinner lands on green.

Are events A and B mutually exclusive?

A No, events A and B are not mutually exclusive.

B Yes, events A and B are mutually exclusive.

2

A spinner with three equal-sized sections coloured red, green, and blue is spun twice. Event A: There is exactly one green. Event B: The second spin lands on red.

Are events A and B mutually exclusive?

A Yes, events A and B are mutually exclusive.

B No, events A and B are not mutually exclusive.

3

Two fair six-sided dice are rolled. Event A: The total is an even number. Event B: The total is exactly 5.

Are events A and B mutually exclusive?

A No, events A and B are not mutually exclusive.

B Yes, events A and B are mutually exclusive.

4

A fair six-sided die is rolled and a spinner with red, green, and blue sections is spun. Event A: The spinner lands on blue. Event B: The die shows a number greater than 4.

Are events A and B mutually exclusive?

A Yes, events A and B are mutually exclusive.

B No, events A and B are not mutually exclusive.

5

Three fair coins are flipped. Event A: There are no tails. Event B: There is exactly one tail.

Are events A and B mutually exclusive?

A Yes, events A and B are mutually exclusive.

B No, events A and B are not mutually exclusive.

6

Two fair six-sided dice are rolled. Event A: The total is greater than 5. Event B: The total is exactly 5.

Are events A and B mutually exclusive?

A Yes, events A and B are mutually exclusive.

B No, events A and B are not mutually exclusive.

7

A spinner with three equal-sized sections coloured red, green, and blue is spun twice. Event A: The first spin lands on blue. Event B: There is no red.

Are events A and B mutually exclusive?

A Yes, events A and B are mutually exclusive.

B No, events A and B are not mutually exclusive.

8

Three fair six-sided dice are rolled. Event A: The total is greater than 10. Event B: The third die shows a 6.

Are events A and B mutually exclusive?

A Yes, events A and B are mutually exclusive.

B No, events A and B are not mutually exclusive.