



Probability Events - Scenario and Two Events to Is Independent

<p>1</p> <p>Two fair six-sided dice are rolled. Event A: The second die shows a 6. Event B: The total is an even number.</p> <p>Are events A and B independent?</p> <p>A No, events A and B are not independent.</p> <p>B Yes, events A and B are independent.</p>	<p>2</p> <p>Four fair coins are flipped. Event A: There is at least one head. Event B: The third coin shows heads.</p> <p>Are events A and B independent?</p> <p>A Yes, events A and B are independent.</p> <p>B No, events A and B are not independent.</p>
<p>3</p> <p>A fair coin is flipped and a fair six-sided die is rolled. Event A: The die shows a number less than 3. Event B: The coin shows tails.</p> <p>Are events A and B independent?</p> <p>A No, events A and B are not independent.</p> <p>B Yes, events A and B are independent.</p>	<p>4</p> <p>A spinner with three equal-sized sections coloured red, green, and blue is spun twice. Event A: There is at least one red. Event B: There is exactly one blue.</p> <p>Are events A and B independent?</p> <p>A Yes, events A and B are independent.</p> <p>B No, events A and B are not independent.</p>
<p>5</p> <p>Two fair coins are flipped. Event A: There is at least one tail. Event B: Every coin shows heads.</p> <p>Are events A and B independent?</p> <p>A No, events A and B are not independent.</p> <p>B Yes, events A and B are independent.</p>	<p>6</p> <p>Three fair six-sided dice are rolled. Event A: The first die shows a number greater than 4. Event B: The third die shows a 1.</p> <p>Are events A and B independent?</p> <p>A Yes, events A and B are independent.</p> <p>B No, events A and B are not independent.</p>
<p>7</p> <p>A fair coin is flipped and a fair six-sided die is rolled. Event A: The die shows a number greater than 4. Event B: The coin shows tails.</p> <p>Are events A and B independent?</p> <p>A No, events A and B are not independent.</p> <p>B Yes, events A and B are independent.</p>	<p>8</p> <p>Three fair six-sided dice are rolled. Event A: The total is exactly 7. Event B: The second die shows a number greater than 4.</p> <p>Are events A and B independent?</p> <p>A Yes, events A and B are independent.</p> <p>B No, events A and B are not independent.</p>