

Mutually Exclusive - when two events <u>Cannot</u> happen at the same time. ** You will <u>Never</u> have any outcomes in common.
Examples of mutually exclusive events:
- Turning left and turning right - Tossing a coin (getting heads/tails)
- In cards: kings and aces
Formula for Mutually Exclusive P(A or B) = P(A) + P(B)





A card is drawn randomly from nine cards labeled 1 through 9. What is the probability of picking a 5 or an even number. We have two possible outcomes. Mutually (exclusive) / inclusive? Getting a 5 α. Getting an even number b. 1,2,3,4,5,6,7,8,9 P(5 or even) = whole #



Examples: A card is drawn randomly from nine cards labeled 1 through 9. P(odd number or a number less than 3) = _____ ME or MI? P(odd)+ P(<3) - P(odd and <3) $\frac{5}{9} + \frac{2}{9} - \frac{1}{9} = \frac{1}{9} = \frac{1}{9} = \frac{2}{3}$ 67% 3, 4, 5, 6, 7, 8, 9





