



# Addition Rule



1. An unbiased six-sided die is thrown. Find the probability that the number obtained is:
  - i. Even?
  - ii. Greater than 3?
  - iii. Even or greater than 3?
2. A number is selected at random from the integers 1 to 50 inclusive. Find the probability that the number is:
  - i. a multiple of 4?
  - ii. a multiple of 5?
  - iii. a multiple of 4 or a multiple of 5?
3. Two unbiased dice are rolled. What is the probability of getting:
  - i. a total which is odd?
  - ii. a total greater than 9?
  - iii. a total which is odd or greater than 9?
4. A card is selected at random from a pack of 52. Find the probability that the card drawn is:
  - i. a Spade?
  - ii. an Ace?
  - iii. a Spade or an Ace?
5. A card is selected at random from a pack of 52. Find the probability that the card is:
  - i. a Heart or a Club?
  - ii. a King or a red card?
  - iii. a Spade or a black King?
  - iv. Are the events of getting a King and getting a red card mutually exclusive?
6. Two unbiased dice are rolled. What is the probability of getting:
  - i. a total of three or a total of eight?
  - ii. a total less than six or a total which is prime?

