



- 1) There are 15 tickets in a box, each bearing one of the numbers from 1 to 15. One ticket is drawn at random from the box. Find the probability of event that the ticket drawn.
- i) Shows an even number.                      ii) Shows a number which is a multiple of 5.
- 2) **One die is rolled then find the probability of each of following events.**
- i) No. on upper face is prime
- ii) No. on upper face is even

**Q.3 : A) Attempt any ONE of the following.**

3

- 1) **Write sample space 's' and number of sample point n(s) for the following experiment. Also write events A, B, C in the set form and write n(A), n(B) and n(C).**

**One die is rolled.**

Event A : Even number on the upper face

Event B : Odd number on the upper face

Event C : Number greater than 4

- 2) Find the probability of the following when a coin is tossed.

i) Getting head    ii) getting tail

Space space

$$S = \{H, T\}$$

$$\therefore n(S) = \boxed{\phantom{00}}$$

- i) Let A be event of getting head.

$$A = \boxed{\phantom{00}}$$

$$\therefore n(A) = 1$$

$$\therefore P(A) = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{1}{2}$$

- ii) Let B be event of getting tail.

$$B = \boxed{\phantom{00}}$$

$$\therefore n(B) = 1$$

$$\therefore P(B) = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{1}{2}$$

**: B) Attempt any ONE of the following.**

3

- 1) **Two digit numbers are formed using digits, 0,1, 2, 3, 4, 5 without repetition of the digits.**

Event A : The number formed is even.

Event B : The number formed is divisible by 3

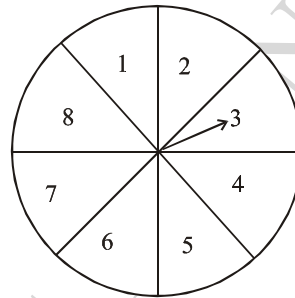
Event C : The number formed is greater than 50. Write n(A), n(B) and n(c).

- 2) A card is drawn from a well shuffled pack of 52 playing cards. Find the probability of each event. The card drawn is
- i) A red card      ii) A face card.

**Q. 4 : Attempt any ONE of the following.**

4

- 1) A card is drawn from a well shuffled pack of 52 playing cards. Find the probability of each event. The card drawn is.
- i) A red card  
ii) a face card  
iii) A diamond card  
iv) A spade card.
- 2) A game of a chance, a spinning arrow comes to rest at one of the numbers 1, 2, 3, 4, 5, 6, 7, 8. All these are equally likely outcomes find the probability that it will rest at.
- i) 8  
ii) An odd number  
iii) A number greater than 2  
iv) A number less than 9



**Q. 5 : Attempt any ONE of the following.**

3

- 1) If a card is drawn from a pack of 52 cards. Find the probability of the following events.
- i) Event A : Getting a black card.  
ii) Event B : Not getting a black card  
iii) Events C : Getting a card bearing number between 2 to 5 including 2 and 5.
- 2) A sanitation committee of two members is to be formed from 3 boys and 2 girls. Write sample space 's' and number of sample pts n(s). Also find the probability that.
- i) At least one girl must be member of the committee.  
ii) Committee must be of one boy and one girl.  
iii) Committee must be of boys only.

\* \* \*

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