## chapter-25 probability Exercise-25.1

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25. MATA HANDLING. Probability. Exercise - 25.1

Solution - 01:-
Given that.

Total number of coin is tossed = locatimes

frequency of Hedd= 445

Tail = 555.

Probability of Event E P(E) = Number of trials in which
the event happened

Total No of trials.

(i): Probability of getting a head = Number of heads

Total No of Trials.

= 445
1000 = 0.445.

(ii): Probability of gettingatail = Number of tails
Total No of Trials

Total No of Trials
```

## Solution -02:-

we have,

Number of times die thrown = 100 times.

me		1792		1		
outcome		2	3	4	5	6.
Frequency	21	9	14	23	18	15

(i) Probability of getting an outcome 3 frequency of outcome 3 is '14'

Probability of getting and outcome 's' = frequency of outcome

No of times die

(ii) Probability of getting an outcome 5 = ?

frequency of getting at outcome 's' = 18.

probability of getting and outcome's's frequency of getting

No of times die thrown

$$=\frac{18}{100}=\frac{9}{50}$$

(iii) probability of getting an outcome '4' = 9.

frequency of getting all outcome '4' = 23.

probability of getting and outcome '4' = frequency of getting an outcome '4'

Total No of Trials.

(VI)

No of times getting an even number = frequency of getting and outcome 's' + frequency of getting and outcome '4' + frequency of getting and outcome '6'

Total Number of Trials = 100.

Probability of getting an even number = No of times getting an even number Total No of Totals.

(v) we have

Frequency of getting an odd number

= Frequency of getting 1 + PFTequency of getting3 + Frequency of getting 5

.. probability of getting an odd number

= Frequency of getting an outcome odd number Total number of times die is thrown

vi) probability of getting a Number less than '3'

Total number of times die isthrown

Prequency of getting Numberless than 3 5mg

= Frequency of getting 1+ Frequency ofgetting = 21+9 = 30.

Probability of getting Number 1855 than  $3 = \frac{30}{100} = \frac{3}{10}$ 

3> solution:-

trequency of Make a pair = 1.

Total No of Trials to pick a sock =

Frequency of pick awhite sock +

Frequency of pick out one more with my eyes closed

= 1+2=3.

Probability of making a pair =  $\frac{1}{3}$ .

solution-04:-

Number of times coin is tossed = 500

(i) Frequency of getting 2 Heads = 105.

Probability of getting '2' heads = Frequency of getting '2' Heads

rotal No offimes coin is tossed

500

= 21

(ii) probability of getting one head = Frequency of getting

head

No oftimes coin

istossed

500

= 11

(iii) Frequency of getting No head = Frequency of getting Noked

= 120

probability of getting No head = Frequency of No head

No of trials

 $= \frac{120}{500} = \frac{6}{25}.$