|             | Probability  |
|-------------|--|
|             | EXERCISE - 24.1  |
| <b>ğ</b> 1. | A bag contains a red ball, a blue ball and yellow ball,<br>all the balls being of same size Anjali takes out a<br>ball from a bag without looking into it what is the<br>probability that she takesout<br>(is yellow ball?<br>(ii) blue ball?  |
| gol.        | Red ball = 1, Blue ball = 1, Yellow ball = 1<br>Total balls = 3<br>(i) probability of taking yellow ball = <u>favourable</u> = <u>i</u><br>(ii) probability of taking red ball = <u>favourable</u> = <u>i</u><br>(iii) probability of taking blue ball = <u>favourable</u> = <u>i</u><br>total = <u>i</u><br>iii) probability of taking blue ball = <u>favourable</u> = <u>i</u><br>total = <u>i</u> |
| ୟୁ<br>ତ     | A box contains 600 Screws. one-tenth are rulted.<br>One Screw is takenout at random from this box.<br>-find the probability that it is a good screw.<br>Total Screws = 600<br>Rusted = $\frac{1}{10} \times 600 = 60$<br>Good Screws = 600 - 60 = 540<br>probability of taking good screws = $\frac{-favoutable}{Total}$   |
| с<br>1      | $= \frac{540}{600}$<br>= $\frac{9}{10}$  |

Q3. In a lottery, there are 5 prized tickets and 995 blank tickets. A person buys a lottery ticket find the probability of his winning a prize. prized tickets = 5 Sol Black tickets = 995 notal tickets = 1000 probability of winning a prize = <u>-favourable</u> tota) = <u>5</u> 1000 = 200 94 12 defective pens are accidentally mixed with 132 good ones. It is not possible to just look at a pen and tell whether or not is defective one pen is taken out at random from this lot. Determine the probability that then pen taken out is a good one. Defective pen = 12 Sol Good ones = 132 Total pens = 144 probability of taken a good pen = -favourable -total  $= \frac{132}{144}$  $= \frac{11}{12}$ Q5. If the probability of winning a game is 5, what is the probability of Losing ? sol. probability of winning a game = 5 notal probability =1 probability of losing = 1- probability of winning =  $1 - \frac{5}{11} = \frac{6}{11}$ .

- Q6. Two players, sania and sonali play a tennis match. It is known that the probability of Sania winning the match is 0.69, what is the probability of Sonali winning ) sol probability of Sania winning the match = 0.69 probability of Sania Losing the match = 1- probability of winning = 1-0.69 = 0.31 .: probability of sonali winning = 0.31. A bag contains 3 red balls and 5 black balls. A Q7. ball is drawn at random from the bag, what is the probability that the ball is (i) red (ii) not red ? Sol. Red balls = 3, Black balls = 5 +0tal balls = 3+5 = 8 (i) probability of drawing red ball =  $\frac{-\text{favourable}}{-\text{total}} = \frac{3}{8}$ (iii probability of drawing not red ball = -favourable 5 total = 8
- 08 There are 40 students in class & of a school of which 25 are a girls and the others are boys. The class teacher has to select one student as a class representative. She writes the name of each student on a separate Card. The Cards being identical. Then she puts Cards in a bag and stirs them thoroughly she then draws one card from the bag what is the probability that the name written on the Card is the name of cira girl (ii) a boy?

Sol noted student = 40  
No of girls = 25  
No of boys = 15  
(i) probability (a girl name) = No of girls = 
$$\frac{85}{10} = \frac{5}{8}$$
  
(ii) probability (a boy name) = No of boys =  $\frac{15}{40} = \frac{3}{8}$   
(ii) probability (a boy name) = No of boys =  $\frac{15}{40} = \frac{3}{8}$   
(ii) probability (a boy name) = No of boys =  $\frac{15}{40} = \frac{3}{8}$   
(ii) probability (a boy name) = No of boys =  $\frac{15}{40} = \frac{3}{8}$   
(iii) probability that it is a vowel?  
No of letters in the word 'TRIANGLE' what  
is the probability that it is a vowel?  
No del number of letters in the word  
TRIANGLE = 8  
Vowels are A, E, I  
probability of chosing a vowel = No of vowels =  $\frac{3}{8}$   
(i) A box contains 5 kea marbles, 8 while marbles and  
(4 green marbles one marble is taken out of the  
box at random what is the probability that the  
marble taken and what is the probability that the  
marble taken and what is the probability that the  
marble taken and what is the probability that the  
marble taken and what is the probability at the  
marble taken and set is taken out of the  
box at random what is the probability that the  
marble taken and while marbles = 8, green marbles = 4  
total marbles = 5+8+4 = 17  
(i) probability of taking a red marbles = No of red marbles  
 $= \frac{No \cdot f while marbles}{17} = \frac{8}{17}$ 

the probability of drawing not a black ball  

$$= \frac{NO \cdot df}{16 + NO \cdot df} \quad while ball = \frac{5+4}{15} = \frac{9}{15} = \frac{3}{5}$$
(iii) probability of drawing red or black =  $\frac{1}{15}$   
(iv) probability of drawing neither red nor black  

$$= \frac{NO \cdot df}{15} \quad while balls = \frac{4}{15}$$
(iv) probability of drawing neither red nor black  

$$= \frac{NO \cdot df}{15} \quad while balls = \frac{4}{15}$$
(iv) probability of drawing have blue equal what is the probability  
equal and remaining have blue equal what is the probability  
that a person selected at random hay (i) blue equal  
(iv) neither blue nor brown equal?  
Set population having black equal =  $85\%$ .  
Total population =  $100\%$   
So population having blue equal =  $85\%$ .  
Total population =  $100\%$   
So population baving blue equal =  $\frac{10}{100} = \frac{1}{10}$   
(i) probability that person has blue equal  
=  $\frac{population}{100} \frac{1}{100} \frac{1}{100} = \frac{1}{10}$   
(ii) probability that person has brown or blue equal  
=  $\frac{population}{100} \frac{1}{100} \frac{1}{100} = \frac{9}{10}$   
(ii) probability that person has brown or blue equal  
=  $\frac{10}{100} \frac{1}{100} \frac{1}{10} \frac{1}{100} \frac{1}{10} \frac$ 

(iv) probability that person has neither blue nor block eyes  

$$= \frac{\text{population having black eyes}}{100} = \frac{65}{100} = \frac{13}{20}$$

Q14. A bag contains G red balls, B while balls. 5 green balls and 3 black balls. one ball is drawn at random from the bag. find the probability that the balls is: (i) while (ii) red or black (iii) not green (iv) neither while nor black.

No of red balls = 6 Sol-No.q white balls = 8 No.of green balls = 5 No of black balls = 3 Total no.4 balls = 23 (i) probability of drawing a white ball = NO.of while bally Total no.of ball · · · · · (ii) probability of drawing red or black = No: of red + NO. of blackballs Total balls <u>- 6+3 - 9</u> 28 - 22 (iii) probability of drawing not a green bally =  $\frac{N0 \cdot d}{red} + N0 \cdot d$  while  $+ N0 \cdot d$  black =  $\frac{6+8+3}{22} = \frac{17}{22}$ Total bally (iv) probability of drawing neither white nor black = No. of red + No. of green balls =  $\frac{6+5}{22} = \frac{11}{23} = \frac{1}{2}$ 

915 A Carton Consists of 100 shirts of which 88 are good.  
8 have minor defets and 4 have major defets peter.  
a trader, will only accept the Shirts which are good,  
but salim, another trader. Will only reject the Shirts  
which have major defets one shirt is drawn at  
which have major defets one shirt is drawn at  
random from the Carton. what is the probability that  
(i) at is acceptable to peter?  
(ii) at is acceptable to salim?  
notal no of shirts = 100  
shirts with minor defets = 88  
shirts with major defets = 4  
(i) probability that shirt acceptable by peter  
= 
$$\frac{N0 \cdot f}{900d} \frac{900d}{5hirts} = \frac{88}{100} = \frac{82}{85}$$
  
(ii) probability that shirt acceptable by salim  
=  $\frac{N0 \cdot f}{900d} \frac{900d}{5hirts} = \frac{84}{25}$   
(ii) probability that Shirt acceptable by Salim  
=  $\frac{N0 \cdot f}{900d} \frac{900d}{5hirts} = \frac{84}{25}$   
(ii) probability that Shirt acceptable by Salim  
=  $\frac{N0 \cdot f}{900d} \frac{900d}{5hirts} = \frac{84}{25}$   
(ii) probability that Shirt acceptable by Salim  
=  $\frac{N0 \cdot f}{100} = \frac{96}{100} = \frac{84}{25}$   
Gib. On a single throw of a die, find the probability of getting:  
(i) an odd number (ii) A number letthan 5  
(ii) a number greaterthan 5 (iv) a prime number  
(W) a number letthan 8 (vi) a number divisible by 3  
(Vii) a number between 3 and 6.  
(Viii) a number divisible 2 or 3.

Sol- Sample Space in a Single throw of a die S= §1,2,3,4,5,6 }  
(ir Odd numbers are 1.3 and 5  

$$\therefore$$
 probability =  $\frac{-fovourable}{total} = \frac{3}{6} = \frac{1}{2}$   
(ii) Number less than 5 are 1.2,3 and 4  
 $\therefore$  probability =  $\frac{-favourable}{total} = \frac{4}{6} = \frac{2}{3}$   
(iii) Number greater than 5 is 6  
 $\therefore$  probability =  $\frac{favourable}{total} = \frac{1}{6}$   
(iv) prime numbers are 23 and 5  
 $\therefore$  probability =  $\frac{favourable}{total} = \frac{3}{6} = \frac{1}{3}$   
(v) number less are 1.2,3,4,5,6  
 $\therefore$  probability =  $\frac{favourable}{total} = \frac{6}{6} = 1$   
(v) number less than 8 are 1.2,3,4,5,6  
 $\therefore$  probability =  $\frac{favourable}{total} = \frac{2}{6} = \frac{1}{3}$ .  
(vi) numbers divisible by 3 are 3 and 6.  
 $\therefore$  probability =  $\frac{favourable}{total} = \frac{2}{6} = \frac{1}{3}$ .  
(vii) Numbers between 3 and 6 are 4 and 5  
 $\therefore$  probability =  $\frac{favourable}{total} = \frac{2}{6} = \frac{1}{3}$ .  
(viii) Numbers of divisible by 2 or 3 are 2,3,4,6  
 $\therefore$  probability =  $\frac{favourable}{total} = \frac{2}{6} = \frac{1}{3}$ .

(17. A child has a die whole Six faces show the letters  
as given below:  
$$[A] \ [B] \ [C] \ [D] \ [E] \ [A]The die is those once what is the probability ofgetting (i) A? (ii) D?Sol (i) probability of getting  $A = \frac{2}{6} = \frac{1}{5}$   
(ii) probability of getting  $D = \frac{1}{6}$   
(ii) probability of getting at one of the numbers 1.2.3,  
4, 5, 6, 7.8 (Shown in the adjoining figure) and these  
are equally likely outcomes what is the probability  
that it will point at (i) 8? (ii) an odd number  
(iii) a number greaterthan 2? (iv) a number less than 9?  
Sol (i) probability =  $\frac{1}{8}$   
(ii) odd numbers are 1.3, 5, 7  
 $P(odd) = \frac{1}{8} = \frac{3}{4}$   
(iii) numbers greaterthan 2 are 3, 4, 5, 6, 7, 8  
 $P(greaterthan 2) = \frac{6}{8} = \frac{3}{4}$   
(iv) all numbers are less than 9  
 $P(16031120) = \frac{8}{8} = 1$$$

919. Find the probability that the month of january may have 5 mondays in (i) a lead year (ii) a non-leap year? sol. (i) In a leap year there are 366 days. In january there are 31 days and 28 days make 4 weeks which means 4 mondays are there now we have to find probability of having monday out of remaining 3 days. Now 3 days can be (Sunday, Monday, Tuesday, Wednesday, Thursday, friday, saturday). let the event be having a monday The no-of outcomes = 3 : probability ( having 5 mondays) = 37 (ii) In a non-leap year there are 365 days. In january there are 31 days and 28 days make 4 weeks which means 4 monolays are there now we have to find proof of having monday out of remaining 3 days. NOW 3 days can be (Sundays, Monday, Tuerday, wednesday, Thurs day, friday - saturday) let the event of " having a monday " the no. of favourable. outcomy = 3 ... probability (baving 5 mondays) =  $\frac{3}{7}$ Find the probability that the month of february may \$20. have 5 wednesdays in (is a leap year . (ii) a non-leap year.

Sol (112) a leap year there are 29 days in February 28  
days make 4 weeks now we have to find probability  
of having wednesday out of remaining 1 day.  
Now 1 day Can be (Sunday, Monday, Tuesday, Wednesday,  
Thursday, Friday, Saturday)  
let the event having a wednesday"  
The no. of OutComes = 1  
. probability (Daving 5 wednesdays) = 1  
(ii) In non leap year there are 28 days in february  
which makes only 4 weeks therefore proof of having  
5 wednesday is 0.  
(28) A box Contains 25 Cards numbered from 1 to 25. A Card is  
chawn from the box at random. find the probability that  
the number on the Card is: iseven (ii) prime  
(ii) numbered 123,..., 25  
(i) even numbered 123,..., 25  
(i) even numbered 123,..., 25  
(i) even numbers are 2,3,5,7,11, 13,17,19 and 23.  
p(prime) = 
$$\frac{10}{25}$$
  
(ii) multiple of G are 6, 18, 18 & 24  
p(multiple of 6) =  $\frac{4}{25}$ 

Sol. Balls bearing numbers 
$$1,2,3, \ldots 19$$
  
(i) prime numbers are  $2,3,5,7,11,13,17+19$   
probability =  $\frac{-fauburable}{+total} = \frac{8}{19}$   
(ii) numbers divisible by 3 or 5 are  $3,5,6,9,10,12,15,18$   
probability =  $\frac{8}{19}$   
(iii) Numbers divisible by 5 or 10 are  $5,10,15$   
Numbers neither divisible by 5 or 10 =  $19-3 = 16$   
probability =  $\frac{16}{19}$   
(iv) Even numbers are  $2,4/6,8,10,12,14/16,18$   
probability =  $\frac{9}{19}$   
Q24 Tickets numbers  $3,5,7,9,...,89$  are placed in a hore

sil. Pickets numbered 3,5,7,9,.....29  
(1) prime numbers are 3,5,7,11,13,17,19,23,229  
probability = 
$$\frac{\text{favourable}}{-\text{total}} = \frac{9}{14}$$

-total 14 (ii) Numbers lessthan 16 are 3,5,7,9,11,13&15 probability =  $\frac{7}{14} = \frac{1}{2}$ (iii) Numbers divisible by 3 are 3,9,15 are probability - tor

probability = 
$$\frac{1}{10}$$
 and  $\frac{1}{10}$  and  $\frac{1}{10}$ 

- (ii) perfect square numbers are 16, 25, 36, 49, 64, 81 probability =  $\frac{\text{favourable}}{\text{total}} = \frac{6}{8b} = \frac{3}{43}$ .
- Q27. Cards marked with numbers 2 to 101 are placed in a box and mixed thoroughly. one card is drawn at random from this box. find the probability that the number on the card is (i) an even number (ii) a number lessthan 14. (iii) a number which is a perfect square (iv) a prime number lessthan 30.
  - Cards numbers are 2,3,4; . = - 101 Total numbers are 100 of which 50 are even numbers and 50 are odd numbers.

(i) 
$$P(even) = \frac{50}{100} = \frac{1}{2}$$

- (iii) numbers less than 14 are 2,3,4,5,6,7,8,9,10,11,12, 13  $p(\text{lesstban 14}) = \frac{18}{100} = \frac{3}{85}$ .
- villo numbers which are perfect square are 4,9,16,25,36 49,64,81, 100. p(perfect square) = - 9
- (iv) prime numbers lessthan 30 are 2,3,5,7,11,13,17, 19, 23, 29P(prime less than 30) =  $\frac{10}{100} = \frac{1}{10}$

Sol.

828. A bag Contains 15 balls of which Some are white and  
Others are red. If the probability of drawing a red ball  
is twice that of a while ball. find the number of  
while balls in the bag.  
Sol. Note balls = 15  
Let while balls = 15 the condition  

$$p(red) = \frac{15-x}{15}$$
 and  $p(while) = \frac{x}{15}$ .  
According to the condition  
 $p(red) = 2 P(while)$   
 $\frac{15-x}{15} = 2 \times \frac{x}{15} = 315 = x = 2x = 33x = 15$   
 $\Rightarrow x = 5$   
while balls are 5.  
(229. A bag contains 6 red balls and Some blue balls. If the  
probability of drawing o blue ball is twice that of  
red balls. Find the comber of blue balls in the bag.  
Sol. No of red balls = 6  
 $let no of blue balls = 6$   
 $let no of blue balls = 5$   
 $p(red) = \frac{x}{6+x}$  and  $p(red) = \frac{6}{6+x}$   
According to Condition.  
 $p(red) = 2 p(red)$   
 $\frac{x}{6+x} = 3x \frac{1}{6+x} \Rightarrow x = 12$ 

. The norof blue balls are 12.

<u>.</u>

Q30 A jar contains of marbles; some are green and others are blue. If a morble is drawn at random from the jar, the probability that it is green is a find the number of blue marbles in the jar. Total marbles = 24 Sd. let no. of green marbles = x no. of blue matbles = 24-2  $p(green) = \frac{\chi}{QU}$  and  $p(Uue) = \frac{QU-\chi}{QU}$ let is given  $P(areen) = \frac{2}{3}$  $\frac{1}{2}\frac{\pi}{2}=\frac{2}{3}=3$   $\pi=16$ Now, no. of blue marbles = 24-7 = 24-16 = 8 Q31. A card is drawn from a Well. Shuffled pack of 52 cards. find the probability of getting : (i) '2' of spades (ii) a jack (iii) a king or red colour (iv) a card of diamond (V) a king or a queen (Vi) a non-face card (Vii) a black face card (Vilio a black card (1x) a non-ace (x) non-face card of black colour (xi) neither a spade nor a jack (xill neither a heart nor a red king Soli (i) total no. of Cards = 52 There is one card of '2' spades NO. of favourable = 1 => probability ( a of spades) = - 1/52 (ii) There of 4 Cards of jack NO. of favourable outcomes = 4

=> probability (a jack) = 
$$\frac{4}{52} = \frac{1}{13}$$
  
(iii) There 4 2 kings 4 red colour (one 4 heart and one 4  
diamond)  
No. of favourable outcomes = 2  
=> probability =  $\frac{2}{52} = \frac{1}{26}$   
(iv) There are 13 cards of chamonds  
No. of favourable outcomes = 13  
=> probability =  $\frac{13}{52} = \frac{1}{4}$   
(V) There are 4 cards 4 king and 4 cards of queen.  
No. of favourable outcomes = A=44 = 8  
=> probability =  $\frac{8}{52} = \frac{3}{15}$   
(Vi) There of 3 face cards (king, queen, jack) of each Suit  
. No. of favourable outcomes = A=44 = 12  
we have to find probability of gilling non face card  
No. of ton face cards = 31+3+3+3 = 12  
we have to find probability of gilling non face card  
No. of ton face cards = rotal no. of cards - face cards  
=  $52 - 12 = 40$   
. probability =  $\frac{40}{52} = \frac{10}{13}$   
(Vii) There of 3 black face cards =  $3+3=6$   
. probability =  $\frac{4}{52} = \frac{3}{26}$   
(Viii) nitere of 3 black face cards =  $3+3=6$   
. probability =  $\frac{6}{52} = \frac{3}{26}$   
(Viii) No. of black cards =  $26$   
. probability =  $\frac{6}{52} = \frac{3}{26}$ 

(ix) There of 4 ace cards No. of non. ace Card = 52 - 4 = 48  $\therefore$  probability =  $\frac{48}{52} = \frac{12}{13}$ . (x) There are 3 black faced cards of spade and 3 black faced cards of club. Total no. of black face cards = 3+3 = 6 Total no. of black cards = 26 No.4 non-face black cards = 26 - 6 = 20 probability =  $\frac{20}{59} = \frac{5}{12}$ (xi) There are 13 cards of Spades which contain 1 jack and also there are 3 more cards of jack of club, heart and diamond. No.of favourable cases (neither a spade nor a jack) = 52-13-3 = 36 probability =  $\frac{36}{52} - \frac{9}{12}$ (xii) There are 13 Cards of heart including one red king and also there is I red king of diamond. ... No. of favourable cases ( neither a heast nor a red king) = 52-13-1= 38  $\Rightarrow$  probability =  $\frac{38}{59} = \frac{19}{94}$ . Q32. The King, queen and jack of clubs are removed from a dects of se playing cards and then shuffled. A card is chrown from the remaining cards. find the probability of getting: (i) a heart (ii) a queen

viiis a club vivs 'g' of red colour.

gol. Noted no.4 cards = 52  
No.4 cards removed (King, queen and jack of clubs) = 3  
. remaining cards = 52-3 = 49  
(i) there are 13 Cards & beats.  
. No.4 favourable cases = 13  
. probability = 
$$\frac{13}{49}$$
  
(ii) there d. 4 queens, but queen d. clubs is remove  
. No.4 favourable cases = 4-1 = 3  
. probability =  $\frac{3}{49}$   
(iii) there d. 13 cards d clubs but king, queen and jack  
d. clubs are removed.  
. No.4 cards d clubs but king, queen and jack  
d. clubs are removed.  
. No.4 cards d clubs = 18-3 = 10  
. No.4 cards d clubs = 18-3 = 10  
. No.4 cards d clubs = 18-3 = 10  
. No.4 cards d clubs = 18 - 3 = 10  
. No.4 cards d clubs = 18 - 3 = 10  
. No.4 cards d clubs = 18 - 3 = 10  
. No.4 cards d clubs = 18 - 3 = 10  
. No.4 cards d clubs = 18 - 3 = 10  
. No.4 cards d clubs = 18 - 3 = 10  
. No.4 cards d clubs = 18 - 3 = 10  
. No.4 cards d clubs = 18 - 3 = 10  
. No.4 cards d clubs = 18 - 3 = 10  
. No.4 cards d clubs = 18 - 3 = 10  
. No.4 cards d clubs = 18 - 3 = 10  
. No.4 cards d red colour = 2  
. probability =  $\frac{10}{49}$   
(iv) No.4 'a' d tred colour = 2  
. probability =  $\frac{10}{49}$   
. Sol.  
. Usen two coins are toked simultaneously. find the  
outcomes are (H.H), (H.T), (T.T), (T.T) all the  
outcomes are equally like.  
. Tats no.4 possible outcomes = 4  
. (i) No.4 favourable cares to get two tails = 1(T.T)  
. probability =  $\frac{1}{4}$ 

(ii) No.d. favourable cases (H,T), (T,H)  
probability = 
$$\frac{2}{4} = \frac{1}{8}$$
  
(iii) No.d. favourable cases = 1 (H,H)  
probability =  $\frac{1}{4}$   
(iv) (H,T), (T,H), (T,T) have atleast one tail.  
No.d. favourable cases = 3  
 $\therefore$  probability =  $\frac{3}{4}$ .  
(v) (H,H). (H,T), (T,H) have atmost one tail.  
No.d. favourable cases = 3  
 $\therefore$  probability =  $\frac{3}{4}$ .  
(v) (H,H). (H,T), (T,H) have atmost one tail.  
No.d. favourable cases = 3  
 $\therefore$  probability =  $\frac{3}{4}$ .  
(c) (H,H). (H,T), (T,H) have atmost one tail.  
No.d. favourable cases = 3  
 $\therefore$  probability =  $\frac{3}{4}$ .  
(i) a doublet case are thrown at the same time.  
find the probability of getting:  
(i) a doublet (ii) a sum of 8 (iii) sum divisible by 5  
(iv) sum of atleast 11  
(alternel are 36  
(1,1), (1,2), (1,3), (1,4), (1,5), (1,6)  
(2,1), (2,2), (2,3), (2,4). (3,5), (3,6)  
(3,1), (3,2), (3,3), (3,4). (3,5). (3,6)

$$(4,1)$$
,  $(4,2)$ ,  $(4,3)$ ,  $(4,4)$ ,  $(4,5)$ ,  $(4,6)$   
 $(5,1)$ ,  $(5,2)$ ,  $(5,3)$ ,  $(5,4)$ ,  $(5,5)$ ,  $(5,6)$   
 $(6,1)$ ,  $(6,2)$ ,  $(6,3)$ ,  $(6,4)$ ,  $(6,5)$ ,  $(6,6)$ 

1.

Sol.

(i) The outcomes favourable to event "a doublet" are  
(1,1), (2,2), (3,3), (4,4), (5,5), (6,6)  
No. of favourable cases = 6  
probability = 
$$\frac{6}{3b} = \frac{1}{6}$$
  
(ii) The favourable outcomes for event "a Sum of 8"  
are (2,6), (3,5), (4,4), (5,3), (6,2)  
ro. of favourable cases = 5  
probability =  $\frac{5}{3b}$   
(iii) The favourable outcomes for event "sum divisible bys"  
are (5,5), (4,6), (6,4), (3,2), (2,3), (4,1), (1,4)  
No. of favourable cases = 7  
probability =  $\frac{7}{36}$   
(iv) The favourable cases = 3  
No. of favourable cases = 3  
probability =  $\frac{3}{36} = \frac{1}{16}$ .