		bability	of a leap y	ear selecte	ed at ran	dom contain 53	}	
Sur	nday is:	366	(b) 1/7	(c) 2/7	((d) 53/365		
2						narble is drawn	at	
	•		ability of dra				at	
Ian		-	(b) 2/5	•				
3 -						85. What is the		
	•	•	vill not rain		OW 13 0.	oo. What is the		
p. o					20	(d) none of thes	e	
4. \						d from the num		
		_	is a multipl					
()			(b) 4/5		5	(d) 1/3		
5.	` '	•	` '	` '		three coins?		
	(a) 4		(b) 5	(c) 8		(d) 7		
6.	The pro	bability	that a prim	ne number	selected	d at random froi	n the	
nun			35) is :					
						(d) none of the	ese	
7.						on event is :		
	` '		o) 1 (,	• •			
	8. The following probabilities are given; choose the correct answer							
for			ot possible.		_			
	` '		` '	` ,		(d) none of thes		
					sly, thai	n the probability	of	
get	_		heads, is:			(1) 1 (0		
40			b) 3/8					
						s of the word		
A			•			etter chosen ha		
???	(a) 6,	13	(b) 7/13	3	(C) I	(d) none of th	iese.	
11	Δ dice is	s throw	n Find the	nrohahility	of aetti	ing an even num	her	
	2/3	3 till OW	(B) 1	(C) $5/6$	_	(ing an even name) 1/2	ibci.	
(, ,)	_, 0		(5)	(0) 0, 0	(-	, , , _		
12.	Two coi	ns are	thrown at t	he same tir	ne. Find	l the probability	of	
_	ting both							
(A)	3/4 (I	3) 1/4	(C) 1/2	(1	D) 0			

13. Two dice are thrown simultaneously. The probability of getting a sum of 9 is:

	(A) 1/10	(B) 3/10	(C) 1/9	(D) 4/9	
		rds are numbere orime number.	ed from 1 to 10	00. Find the pr	obability of
	(A) 3/4		(C) 1/4	(D) 29	9/100
	of drawing	contains 5 red ba a blue ball is do in a bag is: (B) 10 (•
	taken out a	of 600 bulbs con at random from t tive bulb is: = 50 (B) 147/	this box. Then	the probabilit	
	mixed thou the probab	marked with nun roughly. One car bility that the nur (B) 1/10	d is drawn fro mber on card i	m this box ran s a perfect sqı	domly, then
	18. What i (A) 1/7	is the probability (B) 53/366		Mondays in a (D) 7/36	
	probability	l is drawn from a of getting a kind (B) 3/26 (C	g of red suit.		rds. Find the
1/2	equally like 1,2,312	ne of chance con ely to come to re then the proba (B) 1/12	est pointing to	one of the nui	mber
	its outcom result i.e. t probability	e consists of tos le each time. Ary three heads or th that Aryan will I (B) 1/2 (C) 1	van wins if all the nree tails and l	the tosses givenses of the tost of the tos	e the same

22. Riya and Kajal are friends. Probability that both will have the same birthday is the same birthday is:									
(A) 364/365	(B) 31/365	(C) 1/365	(D) 1/133225						
23. A number x is chosen at random from the numbers -2, -1, 0, 1, 2. Then the probability that $x^2 < 2$ is? (A) $1/5$ (B) $2/5$ (C) $3/5$ (D) $4/5$									
24. A jar contains 24 marbles. Some are red and others are white. If a marble is drawn at random from the jar, the probability that it is red is 2/3, then the number of white marbles in the jar is: (A) 10 (B) 6 (C) 8 (D) 7									
Then the prob		multiple of 3 and) natural numbers. 4 is:						
26. Consider a dice with the property that that probability of a face with n dots showing up is proportional to n. The probability of face showing 4 dots is?									
a) $\frac{1}{7}$	b) $\frac{5}{42}$	c) $\frac{1}{21}$	d) $\frac{4}{21}$						
	red by batsman i ne standard devia	n 5 one day match	es are 50, 70, 82,						
		c) 25.29	d) 25.69						
28. Find median and mode of the messages received on 9 consecutive days 15, 11, 9, 5, 18, 4, 18, 13, 17.									
	b) 13, 18		d) 13, 16						
29. A coin is tossed up 4 times. The probability that tails turn up in									
3 cases is a) $\frac{1}{2}$	b) $\frac{1}{2}$	c) $\frac{3}{1/4}$ and 3. The value of 1	d) $\frac{1}{6}$						
a) 8 b) 7 (c) 27 d)	9						
31. The random variables X and Y have variances 0.2 and 0.5 respectively. Let Z= 5X-2Y. The variance of Z is?									

a) 3	b) 4	c) 5	d) 7	7			
	the following v	alues, which	one is not p	ossible in			
probability		r D(v) = 2					
a) $P(x) = 1$ c) $P(x) = 0$.	b) ∑ x 5 d) P((x) = 3 (x) = -0.5					
33.If E(x) =	= 2 and E(z) = 4	4. then E(z –	x) =?				
a) 2	b) 6	c) 0	•) Insufficient data			
34.The cov	ariance of two	independen	t random va	riable is			
a) 1	b) 0	c) – 1	d) Undefined			
35.If Σ P(x a) 0	b) = k² – 8 then b) 1	, the value of c) 3		l) Insufficient data			
36.If P(x) =	= 0.5 and x = 4,	then E(x) = 3	·				
a) 1		c) 4) 2			
07 lo - 4'-				.f. all annah ahilisi a			
is always?	crete probabili	ty aistributio	n, the sum o	of all probabilities			
a) 0	b) Infinite	c) 1	d)	Undefined			
38.If the probability of hitting the target is 0.4, find mean and							
variance. a) 0.4, 0.24	b) 0.6,	0.24	c) 0.4, 0.1	6 d) 0.6, 0.16			

39.If the probability that a bomb dropped from a place will strike the target is 60% and if 10 bombs are dropped, find mean and variance?

41. What is the mean and variance for standard normal distribution?

c) 0.4, 0.16

d) 1

d) 4, 1.6

b) 6, 2.4

c) 8

40. Find the mean of tossing 8 coins.

b) 4

a) 2

a) 0.6, 0.24

a) Mean is 0 and variance is 1 b) Mean is 1 and variance is 0									
c) Mean is 0 and variance is ∞ d) Mean is ∞ and variance is 0									
42.Variance of a random variable X is given by									
a) E	a) E(X) b) E(X2) c) E(X2) - (E(X))2))2	d) (E(X))2				
43.	Mean of	a <u>random</u>	variable	X is aiv	en by				
	(X)		2)	_	-		d) (E(X))2		
44 8	AA Maan of a constant (a) is								
44.Mean of a constant 'a' is a) 0									
45.Variance of a constant 'a' is . a) 0 b) a c) a/2 d) 1									
a) o	a) 0 b) a c) a/2 d) 1								
46.Find the mean and variance of X?									
	Х	0	1	2	3	4			
	f(x)	1/9	2/9	3/9	2/9	1/9			

47. Find the expectation of a random variable X?

b) 3, 4/3

	х	0	1	2	3	
	f(x)	1/6	2/6	2/6	1/6	
a) ().5		b) 1.5		c) 2.5	d) 3.5

48. In a Binomial Distribution, if p, q and n are probability of success, failure and number of trials respectively then variance is given by

c) 2, 2/3

d) 3, 2/3

a) 2, 4/3

49. If 'X' is a random variable, taking values 'x', probability of success and failure being 'p' and 'q' respectively and 'n' trials being conducted, then what is the probability that 'X' takes values 'x'? Use **Binomial Distribution.**

- a) P(X = x) = nCx px qx
- b) P(X = x) = nCx px q(n-x)
- c) P(X = x) = xCn qx p(n-x)
- d) P(x = x) = xCn pn qx

50. If 'p', 'q' and 'n' are probability pf success, failure and number of trials respectively in a Binomial Distribution, what is its Standard **Deviation?**

- a) \sqrt{np}
- b) \sqrt{pq} c) (np)2
- d) \sqrt{npq}