1. The probability of a leap year selected at random contain 53 Sunday is:				
(a) 53/366 (b) 1/7 (c) 2/7 (d) 53/365				
2. A bag contains 3 red and 2 blue marbles. A marble is drawn at				
random. The probability of drawing a black ball is :				
(a) 3/5 (b) 2/5 (c) 0/5 (d) 1/5				
3. The probability that it will rain tomorrow is 0.85. What is the				
probability that it will not rain tomorrow				
(a) 0.25 (b) 0.145 (c) 3/20 (d) none of these				
4. What is the probability that a number selected from the numbers				
(1, 2, 3,, 15) is a multiple of 4?				
(a) 1/5 (b) 4/5 (c) 2/15 (d) 1/3				
5. What are the total outcomes when we throw three coins?				
(a) 4 (b) 5 (c) 8 (d) 7				
6. The probability that a prime number selected at random from the				
numbers (1,2,3,35) is :				
(a) 12/35 (b) 11/35 (c) 13/35 (d) none of these				
7. The sum of the probability of an event and non event is:				
(a) 2 (b) 1 (c) 0 (d) none of these.				
8. The following probabilities are given; choose the correct answer				
for that which is not possible.				
(a) 0.15 (b) 2/7 (c) 7/5 (d) none of these.				
9. If three coins are tossed simultaneously, than the probability of				
getting at least two heads, is:				
getting at least two neads, is:				
(d) 1/4 (b) 3/8 (c) ½ (d) 1/8				
(a) 1/4 (b) 3/8 (c) ½ (d) 1/8				
(a) 1/4 (b) 3/8 (c) ½ (d) 1/8 10. A letter is chosen at random from the letters of the word				
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13. Two dice are thrown simultaneously. The probability of getting a sum of 9 is:

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				
25. A number is selected at random from first 50 natural numbers. Then the probability that it is a multiple of 3 and 4 is: (A) $7/50$ (B) $4/25$ (C) $1/25$ (D) $2/25$				
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) $\frac{4}{21}$	
27. Runs scored by batsman in 5 one day matches are 50, 70, 82, 93, and 20. The standard deviation is				
	b) 25.49		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				
		c) $^{1}/_{4}$	d) $^{1}/_{6}$	
30. X is a varia	ate between 0 and	d 3. The value of	E(X²) is	
,	•	,	,	
31. The random variables X and Y have variances 0.2 and 0.5 respectively. Let Z= 5X-2Y. The variance of Z is?				