



INDIAN SCHOOL NIZWA - WORKSHEET

MATHEMATICS

CH:15-PROBABILITY

Name: _____

Date: _____

Class: X Sec: ____

1.	A die is thrown twice. What is the probability that i.) 5 will come up at least once ii.) 5 will not come up either time ?														
2.	In a single throw of two dice, find the probability of (i) getting a doublet of odd numbers (ii) getting a sum greater than 10 (iii) not getting the same number on two dice (iv) the sum as a prime number														
3.	A bag contains 5 white balls and some red balls. If the probability of drawing a red ball is double that of a white ball, find the number of red balls in the bag.														
4.	There are 18 beads in a box. Some of them are white and the remaining are black. The probability of drawing a black bead from it is $\frac{1}{3}$. Then (a) How many black beads are there in the box? (b) How many white beads are there in the box? (c) How many white beads should be added to it so that the probability of drawing a black bead becomes $\frac{1}{4}$?														
5.	Following table shows the marks scored by a group of 100 students in physics test out of 100 marks. <table><tr><td>Marks</td><td>0 - 20</td><td>20 - 30</td><td>30 - 40</td><td>40 - 50</td><td>50 - 70</td><td>70 - 100</td></tr><tr><td>No.of Students</td><td>12</td><td>18</td><td>20</td><td>28</td><td>12</td><td>10</td></tr></table> Find the probability that student obtained (i) less than 30% marks (ii) 50 or more marks	Marks	0 - 20	20 - 30	30 - 40	40 - 50	50 - 70	70 - 100	No.of Students	12	18	20	28	12	10
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6.	What is the probability of drawing a red king or a red queen from a pack of 52 cards ?														
7.	A number x is chosen at random from the numbers -3, -2, -1, 0, 1, 2, 3. What is probability that $x^2 < 1$?														
8.	Cards marked with numbers 5, 6, 7, 8,, 45 are placed in a box and mixed thoroughly. One card is drawn at random from the box. Find the probability that the number on the drawn card is : (i) a perfect cube (ii) a two digit prime number.														
9.	. If the probability of winning a game is 0.7, what is the probability of losing it?														
10.	A blue and a grey dice are thrown, then what is the probability of getting the sum of the numbers appearing on the faces i. 8 ii. 13 iii. Less than or equal to 12														