BCM SCHOOL, BASANT AVENUE, DUGRI ROAD, LUDHIANA CLASS -X (MATHEMATICS) Assignment 2 (Linear equations, Statistics, Trigonometry)									
1.	What should come in the blank? Mode= () -2 (mean)								
	(a)3 (median) (b)4 (median) (c)2 (median) (d)5 (me								
2.	If $\cos A = 4/5$ , then $\tan A = ?$								
	(a) 3/5	/5 (b) ¾			(c) 4/3		(d)	(d) 4/5	
3.	The pair of equations $x = 0$ and $x = 5$ has								
	(a) no solution (b) unique/one solution								
	(c) two solutions (d) infinitely many solutions								
4.	<b>Assertion (A):</b> The pair of linear equations $3x-5y+1=0$ and $7x+2y-25=0$ has a								
	unique solution.								
	<ul> <li>Reason( R): A pair of linear equations can be solved by elimination method.</li> <li>(a) both A and R are correct and R is the correct explanation of A.</li> <li>(b) both A and R are correct and R is not the correct explanation of A.</li> <li>(c) A is true and R is false.</li> <li>(d) A is false and R is true.</li> </ul>								
5.	5. The mean of the following frequency distribution is 62.8 and the sum							all	
trequencies is 50. Compute the missing frequencies $f_1$ and $f_2$ .								<b>m</b> , 1	
	Class	0 - 20	20 - 40	40 - 60	60 - 80	80 -	100 -	Total	
	Erro gui ori ori		C	10	£	100	120	FO	
	Frequency	$\frac{5}{2+1-2}$	$I_1$	10	I2	/		50	
<u> </u>	Prove that: $a^2 + b^2 = x^2 + y^2$ when $a \cos \theta - b \sin \theta = x$ and $a \sin \theta + b \cos \theta = y$ .								
/.	Four years ago, a father was six times as old as his son. Ten years later, the								
	father will be two and a half times as old as his son. Determine the present age								
	of father and	l his son.							
8.	<b>CASE STUDY:</b> Pro kabaddi league , is a professional level Kabaddi league.								
	launched in 2014 in India. One successful defence is worth 1 point and one								
	<ul> <li>successful raid is worth 2 Points. In a match, Dabang Delhi team has 30</li> <li>successful defences and raids and the number of raids was 10 more than the number of defences.</li> <li>Based on above information, answer the following questions: <ul> <li>(a) If x and y are the numbers of successful defences and raids respectively, then find equations which represent the problem.</li> <li>(b) How many points were scored by raiders?</li> <li>(c) How many points were scored by defenders?</li> <li>(d) What was the total number of Points scored by Dabang Delhi in the match?</li> </ul> </li> </ul>								