



# INDIAN SCHOOL DARSAIT

## DEPARTMENT OF MATHEMATICS



Subject : Mathematics	Topic : Linear Equations	Date of Worksheet : _____
Resource Person: Mrs Priya Bijukumar	Date : _____	
Name of the Student : _____	Class & Division : VIII	Roll Number : ____

S.No.	SECTION-A	Marks
1	Give expressions for the following;	
2	The sum of 6 and x	
3	3 times y added to 7	
4	3 taken away from 2y	
5	John covers x centimeters distance in one step. How much distance does he cover in 23 steps?	
SECTION -B		
Solve the following equations		
1	$3x + \frac{x}{5} = 1$	1
a		
b	$\frac{2+x}{3-x} = 5$	1
2	A number when added to -50 gives 172 . Find the number	1
3	Solve $x + 10 = \frac{x}{5}(2x + 3)$	2
4	The sum of three consecutive even numbers is 162 .Find the numbers	2
5	The denominator of a rational number is greater than its numerator by 3. If 3 is subtracted from the numerator and 2 is added to its denominator the new number becomes 1/5. Find the original number	2
	<b>S</b>	
6	$3y + \frac{y}{5} = 2y + 1$	2
7	$\frac{x-5}{2} - \frac{x-3}{5} = \frac{1}{2}$	3
8	$\frac{t-5}{2} + \frac{t-3}{-5} = \frac{1}{2}$	3
9	The sum of the ages of a father and his son is 72 years. After 2 years, father will be 4 years less than 3 times the age of his son. Find their present ages	3





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10	In a test ,Arjun obtained 9 marks more than Aravind whereas Rajesh obtained 5 marks more than that obtained by Arjun and Aravind. If all of them together obtained 195 marks. Find the marks obtained by each of them.	3
11	At present Akhil is twice as old as his son. In four years ,he will be four times as old his son was 9 yearsago.Find their present ages.	
<b>*SECTION-C *</b>		
1	The sum of the digits of a 2- digit number is 6 .On reversing its digits , the new number is 18 less than the original number. Find the original number.	
2	A student has to secure 40% marks to pass. He got 40 marks and failed by 40 marks. What is the maximum mark?	
3	Solve $\frac{4(5y-2)}{3} + 1 = \frac{5(2y-2)}{3} - 2$	
4	Solve for x and verify $\frac{x+p}{p+q} = \frac{x-p}{p-q}$	
5	$\frac{(3y+2)}{3} = 2 - \frac{(5y-2)}{7}$ . find the solution	