



INDIAN SCHOOL DARSAIT
DEPARTMENT OF MATHEMATICS
WORKSHEET # 2



Subject : MATHEMATICS Topic : LINEAR Date of Worksheet : 30/04/2018
EQUATIONS IN ONE
VARIABLE

Resource Person: Mrs. Indu.P

Name of the Student _____ Class & Division: _____ Roll Number : _____

SL.No.	SECTION A [BASIC SKILLS]	
1 .	$2x + 3x - 4x =$	
2.	$-2 + (3 + -4) =$	
3.	$2(x + 6) =$	
4.	$4x = 12$, then the value of x is =	
5.	$6x - 4 + (-3 + 7) =$	
Sl.No.	SECTION B – [CHAPTER BASED QUESTIONS]	Marks
1	$3x - 7 = 2x + 1$	1
2	$4t + \frac{3}{5} = 5$	1
3	$7y + \frac{3}{4} = \frac{3}{2}y + 7$	2
4	$\frac{2+m}{3+m} = 5$	2
5	$\frac{4z+7}{9-3z} = \frac{1}{4}$	2
6	$\frac{2}{5}(x + 10) = 2x + 3$	2
7	$5(2p - 1) + 3(4p + 3) = 5(4p - 1)$	2
8	$3y + \frac{2}{3} = 2y + 1$	2
9	$\frac{x-5}{2} - \frac{x-3}{5} = \frac{1}{2}$	3
10	$\frac{3x+5}{5} - \frac{x-2}{3} = \frac{5x-7}{6}$	3



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11	Solve $(2x-2)+(3x-3)+(9x-9)=1$	2
12	A number when added to its half gives 72 . Find the number .	3
13	The sum of three consecutive even numbers is 42 . Find the numbers.	3
14	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 $\frac{1}{5}$. Find the original number.	4
15	The length of a rectangle is 15cm more than its breadth. If the perimeter of the rectangle is 150cm , find the length and breadth of the rectangle	4
16	4 years ago my father's age was 4 times that of my age. At present the sum of my father's age and that of mine is 53 years. What is my father's present age ?	4
17	The number of boys and girls in a class are in the ratio 5 : 4. If the number of boys is 9 more than the number of girls , find the total number of children in the class.	3
SECTION C [HOT QUESTIONS]		
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.	4
2	Of the three angles of a triangle the second one is $\frac{1}{3}$ of the first and the third one is 26° more than the first. Find the three angles.	4
3	One-fourth of a flock of birds have gone to the forest. One-third of the total number are eating seeds in the field and remaining 15 are drinking water on the bank of a pond . Find the total number of birds .	4
4	A total of Rs. 50000 is to be distributed among 200 persons as prizes. The prizes are comprised are of either Rs.500 or Rs. 100 . Find the number of each type of prizes.	4