WORKSHEET

Class: VIII	Topic: Ch.2. Linear Equations in One Variable.
Subject: MATHS	

Question 1. **Make equations for given statements :**
(a) 3 added to a number is 11
(b) 2 subtracted from a number is equal to 15.
(c) 3 times a number decreased by 2 is 4.
(d) 2 times the sum of the number x and 7 is 13
(e)Four fifths of a number. is greater than three fourth of the number by 4.
(f) The sum of four times a number and 5 gives a number five times of it.
(g) One-fourth of a number is 2 more than 5.
(h) 6 less than a number is 13
(i) Subtract 7 from thrice a number the result is 8
(j) Karan says that he has 6 balls more than five times the number of balls Sumit has. If Karan has 36 balls and Sumit has x number of balls.
Question 2. Solve:
(i) $(x - 2) + (x - 3) + (x - 9) = 0$
(ii) $3x/2 - 2x/3 = 8$
(iii) $(3+x)/(2x-3) = -1/2$
(iv) $(x-7)/3 = (x-1)/5$
(v) $(x + 3)/6 + 1 = (6x - 1)/3$
(vi) $(2 + x)(7 - x)/(5 - x)(4 + x) = 1$
(vii) $x/2-10=1/2$
(viii) $x/3-x/2=6$
(ix) $6x-9-2(1+x)=x-9$
(x) $2(x+2)+5(x+5)=4(x-8)+2(x-2)$
Question 3: Five years ago, Anu was thrice as old as Sonu. After ten years, Anu will be twice as old as Sonu. How old are Anu and Sonu?
Question 4: Three consecutive integers are as such they are taken in increasing order and multiplied by 2, 3, and 4, respectively, they add up to 56. Find these numbers.
Question 5: A sum of Rs.2700 is to be given in the form of 63 prizes. If the prize is of either Rs.100 or Rs.25, find the number of prizes of each type.
Question 6: Amina thinks of a number and subtracts 5/2 from it. She multiplies the result by 8. the final result is 3 times her original number. Find the number

Question 7: The sum of a two-digit number and the number obtained by reversing its digits is 121. Find the number if its unit place digit is 5.

Question 8: There is a narrow rectangular plot. The length and breadth of the plot are in the ratio of 11:4. At the rate of Rs. 100 per meter it will cost the village panchayat Rs. 75000 to fence the plot. What are the dimensions of the plot?

Question 9: The numbers are in the ratio 4:3. If they differ by 18, find these numbers.

Question 10. A positive number is 5 times another number. If 21 is added to both the numbers, then one of the new numbers become twice of other new numbers. Find the original numbers.

Note: Solve the worksheet in your fair copy.