

WORK SHEET : 2011 – 12.

**STD. VIII
MATHEMATICS**

LINEAR EQUATIONS

1. Solve for x :

i. $4x - 7 - (x+4) = 3x + 4 - (2x - 1)$

ii. $\frac{17(2 - x) - 5(x + 12)}{1 - 7x} = 8$

2. The sum of three consecutive even numbers is 30. Find the numbers.

3. The sum of three consecutive odd numbers is 63. Find the numbers.

4. The sum of two twin primes is 60. Find the two prime numbers.

5. The measures of the angles of a triangle are in the ratio 1 : 2 : 3. Find the angles.

6. The numerator of a fraction is 3 less than its denominator. If we add 1 to both numerator and denominator, it becomes equal to . Find the fraction.

7. Renu's mother is four times as old as Renu. After 5 years her mother will be three times as old as she will then be. Find their present ages.

8. The sum of four consecutive multiples of 7 is 70. Find these multiples.

9. The sum of two numbers is 50. If the larger number is divided by the smaller number we get . Find the numbers.

10. The perimeter of a triangle is 49 cm. One side is 7cm longer than another side and 5cm shorter than the third side. Find the sides.

11. In a quadrilateral ABCD, $\angle A = (2x + 4)^\circ$, $\angle B = (2x - 13)^\circ$, $\angle C = (3x + 11)^\circ$ and $\angle D = (4x - 5)^\circ$. Find the measures of the angles.
12. Half of the number of boys of Class 8 B went to the football ground to play.
One-fourth of the number of boys went to the Library to take books.
Remaining 10 boys went to the 3rd Language room. Find the number of boys of Class 8 B.
13. In $\triangle ABC$, $\angle A = \angle C$ and $\angle B = \angle A + \angle C$. Find the measures of the angles of the triangle.

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