**HOLIDAY’S HOME WORK**

**Assignment of Class X-Maths**

**1**.Write HCF of smallest composite number and smallest prime number.

**2**.Find (HCF \* LCM) for the numbers 100 and 190

**3**.Four bells toll together at 9:00am. They toll after 7,8,11,12 seconds respectively. How many times will they toll together against in next 3 hrs.

**4**.There are 576 boys and 448 girls in a school that are to be divided into equal sections of either boys or girls alone. Find total no of sections thus formed

**5**.Find HCF and LCM of288,360,384 by prime factorisation.

**6**. Write whether 2 $\sqrt{45}$ + 3 $\sqrt{20}$ on simplification gives rational or irrational number.

 2 $\sqrt{5}$

**7**.If sum of zeros of polynomial 5x2 – (3 + k) x + 7 is zero, then find the zeros of polynomial 2x2 – 2 ( k + 11 )x + 30.

**8**. Verify whether 2,3,1/2 are zeros of polynomial p (x) = 2x3 – 11x2 + 17x – 6.

**9**. $α$ and $β$ are zeros of polynomial x2 + 6x + 9, then form a polynomial whose zeros are ( - $α$ , - $β$ )

**10**.If one zero of polynomial ( k + 1 )x2 – 5x + 5 is multiplicative inverse of the other , then find the zeros of kx2 – 3kx + 9 where k is constant.

**11**.Given that x - $\sqrt{5}$ is a factor of polynomial x3 - 3$\sqrt{5} $ x2 – 5x + 15$\sqrt{5}$ , find all zeros of polynomial.

**12**. Solve graphically 3x – 2y – 1 = 0 ; 2x – 3y + 6 = 0 shade the region bounded by these lines and x – axis.

**13**. A bag contains 94 coins of 50 paise and 25 paise denominations. If the total worth of these coins be Rs 29.75 , find no of coins of each kind.

**14**. Solve the following system of equation:

 a (x + y ) + b ( x – y ) = a2 – ab + b2 ; a(x + y ) - b ( x – y ) = a2 + ab + b2

**15**. A man invested Rs 30,000 in two types of bonds. On one he earns 5% and on other, he gets 7%. If his total earnings are Rs 2000, find his investment in each type of bond.

**HOLIDAY’S HOME WORK**

**CLASS-X MATHS**

 **Activities**

1. Draw Factor Tree .
2. Draw zeros of quadratic polynomial on graph .
3. Do comparative study of solution of pair of linear equation by using Graph Paper.
4. Derive formula for an of chapter Arithmetic Progression.
5. Do assignment (attached on back).
6. Learn tables 2- 20