ASSIGNMENT NO.4

STD –VIII SUBJECT – MATHS chapter– 6, 16

1. Find Q in 4 2 Q

+2 Q 7

6 9 3

1. If 42z3 is a multiple of 9 , where z is a digit , what is the value of z ?
2. Write down all the rules of divisibility by 2,3,4,,5,6,8,9,10,11?
3. If 197r is divisible by 3 , find all the possible values of r ?
4. How many natural numbers lie between the square of 12 and 13 ?
5. Express 144 as sum of odd numbers ?
6. Write a Pythagorean triplet whose one member is 24
7. Find the square of 99?
8. Find the square root of 6400 by prime factorisation method , long division method ?
9. Find the square root of 169 by repeated subtraction method ?
10. Find three positive numbers in the ratio 2 : 3 : 5, the sum of whose squares is 950.
11. 4225 plants are to be planted in a garden in such a way that each row contains as many plants as the number of rows . find the number of rows and the number of plants in each row ?
12. Find the smallest square number which is divisible by each of the numbers 6 , 9 , 15 ?
13. Find the smallest natural number by which 9408 must be divided so that the quotient is a perfect square , find the square root of the quotient ?
14. Find the greatest 4- digit number , which is a perfect square ?
15. Find the square root of the following numbers by long divison method –
16. 51.84 (ii) 53824 (iii)
17. A ladder 6 m long leaned against a wall . the ladder reaches the wall to a height of 4.8 m . find the distance between the wall and the the foot of the ladder ?
18. Find the least number which must be subtracted from 2000 to make it a perfect square
19. Find the least number which must be added to 6412 to make it a perfect square ?
20. True/ false

* All natural numbers are not perfect squares
* A number ending in an even number of zeroes is always a perfect square
* Square of an odd number is always an odd number
* Square of an even numbers is always an even numbers