

## ASSIGNMENT – 1

1. Find the greatest number which can be divided 284, 698 and 1618 leaving the remainder 8 in each case.
2. Find the largest number of four digits exactly divisible by 12,15,18,27.
3. Find the least number which when divided by 6,7,8,9, and 12 leaves the same remainder 1 in each case
4. Find the LCM of 32 and 48 and hence find their HCF
5. Find the largest number that can exactly divide 513, 783 and 1107
6. Divide Rs. 110 into two parts so that 5 times of one part together with 6 times of the other part will be equal to Rs. 610
7. A bought a number of articles for Rs. 325 and sold all except 5 at a profit of Rs. 3 per article with the total amount received he could buy 31 more articles than before. Find the cost per article?
8. Find the cost price of the article if 15% profit is made by selling an article at Rs 230
9. Mr. Sunil bought a certain number of shirts for Rs. 750, each shirt costing the same, he sold each shirt at Rs. 42 with the total sales proceeds he could buy 10 more shirts than before. How many shirts did he buy originally.
10. Three persons A, B and C whose salaries together amount to Rs. 390. A spends 30%, B spends 65% and C spends 80% of their salaries respectively. If their savings are in the ratio 9:14:12. Find their respective salaries.
11. Food I has one unit of vitamin A, 2 units of vitamin B and 4 units of vitamin C. Food II has 1, 3 and 9 units respectively. Food III has 1, 2 and 1 units respectively. 7 units of vitamin A, 17 units of Vitamin B and 37 units of Vitamin C are required. Find all possible amounts of 3 foods that will provide exactly their amount of Vitamin.
12. A man buys 6 dozens of pencils, 5 dozens of pens and 10 dozens of notebooks. Pencil costs Rs. 36 per dozen, pen Rs 60 per dozen and notebook Rs. 48. Represent the quantities bought by him in a row matrix and price by column matrix and obtain the total cost.