

32. Find the largest number that divides 2053 and 967 and leaves a remainder of 5 and 7 respectively. Also verify relation between LCM and HCF. (5)

OR

Prove that $\sqrt{5}$ is an irrational number also prove $\frac{1}{3-\sqrt{5}}$ is an irrational number.

33. A cottage industry produces a certain number of pottery articles in a day. It was observed on a particular day that the cost of production of each article (in rupees) was 3 more than twice the number of articles produced on that day. If the total cost of production on that day was rupees 90, find the number of articles produced and the cost of each article. (5)

34. If the median of the following frequency distribution is 46, find the missing frequencies; (5)