

SUBJECT-MATHEMATICS, CLASS -VI
CHAPTER (FACTORS AND MULTIPLES)
WORKSHEET (HOTS)

1. Pencils come in packages of 10. Erasers come in packages of 12. Aayesha wants to purchase the smallest number of pencils and erasers, so that she will have exactly 1 eraser per pencil. How many packages of pencils and erasers should she buy?
 2. How many numbers less than 20 can be written as the sum of two prime numbers?
 3. A farm has two bells – one that rings every 3 minutes and another that rings every $3\frac{1}{2}$ minutes. Suppose the bells ring together at noon. What is the first time after 2 pm that they will ring together again?
 4. What are the two numbers nearest to 20000 which can exactly divisible by 4,7,8,6 and 5.
 5. Three numbers are in the ratio of 3:4:5 and their LCM is 2400. Find their HCF.
 6. The LCM of two numbers is 12 times their HCF. The sum of the HCF and LCM is 403. If one number is 93, then find the other.
 7. What will be the least number which when doubled will be exactly divisible by 12, 18, 21 and 30?
 8. Three numbers which are co-prime to each other are such that the product of the first two is 551 and that of the last two is 1073. Find the sum of the three numbers.
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