

Learnzy Academy

Worksheet: Real Numbers

1. Prove that $7 \times 11 \times 13 + 13$ is a composite number.
2. Three tankers contain 403 litres, 434 litres and 465 litres of diesel respectively. Find the maximum capacity of a container that can measure the diesel of the three containers exact number of times.
3. Find the smallest number that when divided by 12, 16, and 24 leaves a remainder of 4 in each case.
4. If the HCF of two numbers is 16 and their product is 3072, find their LCM.
5. If the product of two positive integers is equal to the product of their HCF and LCM is true then, the HCF (32, 36) is
6. The product of HCF and LCM of 60, 84 and 108 is
7. Find the smallest number that is divisible by 6, 10, and 15, and leaves a remainder of 5 in each case.
8. In a school there are two sections – section A and section B of class X. There are 32 students in section A and 36 students in section B. Determine the minimum number of books required for their class library so that they can be distributed equally among students of section A or section B.
9. If $\text{HCF}(6, a) = 2$ and $\text{LCM}(6, a) = 60$ then find the value of a .
10. Determine the number nearest 110000 but greater than 100000 which is exactly divisible by each of 8, 15 and 21.
11. Find the least number which when divided by 6, 15 and 18 leave remainder 5 in each case.
12. The LCM of 60, 84 and 108 is