



Class 10th

Real Numbers

Practice Sheet

1. The LCM and HCF of two numbers are 240 and 12 respectively. If one of the numbers is 60, then find the other number.
2. The LCM of two numbers is 45 times their HCF. If one of the number is 225 and sum of their LCM and HCF is 1150, find the other number.
3. Prove that $\sqrt{5}$ is irrational.
4. Prove that $3 + 2\sqrt{5}$ is irrational.
5. Prove that $\sqrt{2} + \sqrt{3}$ is irrational.
6. Find the largest number which divides 438 and 606, leaving remainder 6 in each case
 - (1) 24 (2) 18
 - (3) 12 (4) 6
7. Find the least number which when divided by 35, 56 and 91 leaves the same remainder 7 in each case.
 - (1) 3647 (2) 3657
 - (3) 3667 (4) 3637
8. Raghunath has to distribute bananas to the inhabitants of old-age-homes in a town. There are two old-age homes in the town-home-A and home-B. There are 32 old persons in home-A and 36 old persons in home B. Determine the minimum number of bananas required for the two old-agehomes that can be distributed equally.
9. Explain why $7 \times 11 \times 13 + 13$ and $7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1 + 5$ are composite numbers.
10. Three different containers contain 496 litres, 806 litres and 713 litres of a mixture. What is the capacity of the biggest container that can measure all the different quantities exactly?
11. 4 bells ring together at 9:00 a.m. They ring after 7 seconds, 8 seconds, 11 seconds and 12 seconds respectively. How many times will they ring together again in the next 3 hours?



Answer Key

- | | |
|------------|-------------|
| 1. (Prove) | 7. (1) |
| 2. (Prove) | 8. (Prove) |
| 3. (Prove) | 9. (Prove) |
| 4. (Prove) | 10. (Prove) |
| 5. (Prove) | 10. (Prove) |
| 6. (1) | |



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