

10 Mathematics

Page 1 – Recall Sheet

- Factor: divides exactly.
- Multiple: table of the number.
- Prime: exactly 2 factors.
- Composite: more than 2 factors.
- HCF = Greatest Common Factor.
- LCM = Least Common Multiple.
- Prime Factorization = Product of prime numbers.
- Memory: HCF → COMMON, LCM → ALL.

Page 2 – Visual Learning

- Flow: Number → Prime Factorization → HCF → LCM
- Example: $24=2 \times 2 \times 2 \times 3$, $36=2 \times 2 \times 3 \times 3$, HCF=12, LCM=72

Page 3 – Complete

- $60 = 2 \times \underline{\quad} = 2 \times 2 \times \underline{\quad} = 2 \times 2 \times 3 \times 5$
- HCF means _____
- LCM means _____
- Factors of 18: _____

Page 4 – Find the Mistake

- $\text{HCF}(12,18)=36$
- 17 is composite
- $24=2 \times 12=2 \times 6=2 \times 3$

Page 5 – Practice

- Prime factorization of 72
- HCF of 24 and 36
- LCM of 15 and 20
- Factors of 28

Page 6 – Quick Quiz

- True/False: Every prime number is odd.
- HCF of co-primes = _____
- Which is prime? 21,29,35,39
- LCM of 8 and 12