

CLASS 10 MATHEMATICS – CLASS TEST

Name: _____

Date: _____

Class/Section: _____

Marks: 30

Section A – Very Short Answer ($1 \times 6 = 6$ marks)

1. Find the HCF of 18 and 24.
2. Find the LCM of 6 and 8.
3. Write the relationship between HCF and LCM of two positive integers a and b.
4. Write 0.75 as a fraction in simplest form.
5. Convert $\frac{3}{5}$ into decimal form.
6. Which is greater: $\frac{3}{4}$ or $\frac{5}{8}$?

Section B – Basic Calculation ($2 \times 6 = 12$ marks)

7. Find the HCF and LCM of 24 and 36 using prime factorisation.
8. Find the HCF and LCM of 15 and 20.
9. Verify: $\text{HCF} \times \text{LCM} = \text{Product of the two numbers}$ for 12 and 18.
10. Add: $3.75 + 2.68$
11. Subtract: $8.50 - 3.76$
12. Add and simplify: $\frac{7}{12} + \frac{5}{18}$

Section C – Practice & Application ($3 \times 4 = 12$ marks)

13. Find the HCF and LCM of 42 and 56. Then verify their relationship.
14. Calculate: (a) 12.5×0.4 (b) $15.6 \div 0.6$
15. Solve and simplify: $\frac{7}{12} + \frac{5}{18} - \frac{1}{9}$
16. Two bells ring at intervals of 12 minutes and 18 minutes. If they ring together at 9:00 a.m., after how many minutes

Section D – Challenge

17. Two numbers have $\text{HCF} = 6$ and $\text{LCM} = 180$. If one number is 30, find the other number.