

EduSahara™ Learning Center Assignment**Grade : Class X, CBSE****Chapter : Real Numbers****Name : Prime Factorization and L.C.M and H.C.F**

1. Find the prime factorization of 8

(i) 2^4 (ii) $(-1)^3$ (iii) 5^3

(iv) 2^2 (v) 2^3

2. Find the prime factorization of 95

(i) 8×19 (ii) 5×18 (iii) $5^2 \times 19$

(iv) 5×19 (v) 5×17

3. Find the prime factorization of 972

(i) $2^2 \times 3^4$ (ii) $2^2 \times 3^3$ (iii) $2^3 \times 3^5$

(iv) $2^2 \times 5^5$ (v) $2^2 \times 3^5$

4. Find the prime factorization of 5488

(i) $2^4 \times 5^3$ (ii) $5^4 \times 7^3$ (iii) $2^4 \times 7^2$

(iv) $2^5 \times 7^3$ (v) $2^4 \times 7^3$

5. Find the number of prime factors of 28

(i) 2 (ii) 5 (iii) 3 (iv) 1 (v) 0

6. Find the number of prime factors of 87

(i) (-1) (ii) 3 (iii) 5 (iv) 2 (v) 1

7. Find the number of prime factors of 1155

(i) 5 (ii) 1 (iii) 3 (iv) 6 (v) 4

8. Find the number of prime factors of 288

(i) 2 (ii) 3 (iii) (-1) (iv) 1 (v) 5

9. Find the total number of factors of 10

(i) 2 (ii) 4 (iii) 6 (iv) 3 (v) 5

10. Find the total number of factors of 99

(i) 3 (ii) 5 (iii) 7 (iv) 6 (v) 8

11. Find the total number of factors of 1080

(i) 32 (ii) 31 (iii) 33 (iv) 34 (v) 29

12. Find the total number of factors of 7800

(i) 47 (ii) 51 (iii) 48 (iv) 46 (v) 49

13. Find the HCF of {10,9}

(i) 2 (ii) 3 (iii) (-1) (iv) 0 (v) 1

14. Find the HCF of {39,26}

(i) 14 (ii) 12 (iii) 13 (iv) 15 (v) 11

15. Find the HCF of {21,33,44}

(i) (-2) (ii) 0 (iii) 1 (iv) 4 (v) 2

16. Find the HCF of {39,4,16,34}

(i) 3 (ii) (-2) (iii) 1 (iv) 0 (v) 2

17. Find the HCF of {24,90}

(i) 8 (ii) 5 (iii) 7 (iv) 6 (v) 3

18. Find the HCF of {1240,1640}

(i) 41 (ii) 39 (iii) 40 (iv) 42 (v) 38

19. Find the HCF of {660,1110,480}

(i) 32 (ii) 31 (iii) 28 (iv) 29 (v) 30

20. Find the HCF of {400,410,340,120}

(i) 12 (ii) 10 (iii) 7 (iv) 9 (v) 11

21. Find the LCM of {9,4}

(i) 37 (ii) 34 (iii) 36 (iv) 35 (v) 39

22. Find the LCM of {6,9}

(i) 19 (ii) 16 (iii) 21 (iv) 17 (v) 18

23. Find the LCM of {14,9,6}

(i) 129 (ii) 127 (iii) 125 (iv) 123 (v) 126

24. Find the LCM of {8,12,9,15}

(i) 359 (ii) 362 (iii) 361 (iv) 357 (v) 360

25. Find the LCM of {54,18}

(i) 54 (ii) 56 (iii) 53 (iv) 52 (v) 55

26. Find the LCM of {108,78}

(i) 1404 (ii) 1406 (iii) 1403 (iv) 1405 (v) 1402

27. Find the LCM of {540,300,180}

(i) 2702 (ii) 2699 (iii) 2698 (iv) 2701 (v) 2700

28. Find the LCM of {204,192,168,180}

(i) 342718 (ii) 342719 (iii) 342723 (iv) 342721 (v) 342720

29. Find the product of LCM and HCF of {8,6}

(i) 47 (ii) 49 (iii) 48 (iv) 45 (v) 50

30. Find the product of LCM and HCF of {26,4}

(i) 106 (ii) 105 (iii) 103 (iv) 104 (v) 102

31. Find the product of LCM and HCF of {20,15,26}

(i) 778 (ii) 780 (iii) 782 (iv) 781 (v) 779

32. Find the product of LCM and HCF of {6,25,22,9}

(i) 4951 (ii) 4947 (iii) 4950 (iv) 4949 (v) 4953

Assignment Key

- 1) (v)
- 2) (iv)
- 3) (v)
- 4) (v)
- 5) (i)
- 6) (iv)
- 7) (v)
- 8) (i)
- 9) (ii)
- 10) (iv)
- 11) (i)
- 12) (iii)
- 13) (v)
- 14) (iii)
- 15) (iii)
- 16) (iii)
- 17) (iv)
- 18) (iii)
- 19) (v)
- 20) (ii)
- 21) (iii)
- 22) (v)
- 23) (v)
- 24) (v)
- 25) (i)
- 26) (i)
- 27) (v)
- 28) (v)
- 29) (iii)
- 30) (iv)
- 31) (ii)
- 32) (iii)