EduSahara™ Assignment

Name : Prime Factorization and L.C.M and H.C.F

Chapter : Factors and Multiples

Grade : ICSE Grade VIII

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1. Find the HCF of $\{9,4\}$

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

2. Find the HCF of $\{35,18,10\}$

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

3. Find the HCF of $\{160,150,190,230\}$

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

4. Find the LCM of $\{9,8\}$

   (i) 73 (ii) 71 (iii) 74 (iv) 70 (v) 72

5. Find the LCM of $\{8,15,9\}$

   (i) 359 (ii) 361 (iii) 357 (iv) 363 (v) 360

6. Find the LCM of $\{16,6,8,9\}$

   (i) 146 (ii) 144 (iii) 143 (iv) 145 (v) 141

7. Find the product of LCM and HCF of $\{4,6\}$

   (i) 23 (ii) 25 (iii) 22 (iv) 26 (v) 24

8. Find the product of LCM and HCF of $\{12,25,27\}$

   (i) 2703 (ii) 2700 (iii) 2697 (iv) 2701 (v) 2699

9. Find the product of LCM and HCF of $\{9,20,14,28\}$

   (i) 1261 (ii) 1258 (iii) 1262 (iv) 1259 (v) 1260

10. Find the prime factorization of 49

    (i) 9^2 (ii) 7 (iii) 7^2 (iv) 4^2 (v) 7^3

11. Find the prime factorization of 84

    (i) $2^2 \times 3 \times 5$ (ii) $2^2 \times 3 \times 7$ (iii) $2 \times 3 \times 7$ (iv) $2^3 \times 3 \times 7$ (v) $2^2 \times 6 \times 7$

12. Find the prime factorization of 960

    (i) $(-1)^6 \times 3 \times 5$ (ii) $2^6 \times 3 \times 8$ (iii) $2^6 \times 2 \times 5$ (iv) $2^6 \times 3 \times 5$ (v) $2^6 \times 3 \times 5^2$

13. Find the prime factorization of 5040

    (i) $2^4 \times 3^2 \times 5 \times 10$ (ii) $2^4 \times 3 \times 5 \times 7$ (iii) $2^4 \times 3^2 \times 5 \times 7$ (iv) $2^4 \times 3^2 \times 5 \times 4$ (v) $2^4 \times 3^3 \times 5 \times 7$

14. Find the number of prime factors of 33

(i) 3 (ii) 2 (iii) 1 (iv) 0 (v) 4

15. Find the number of prime factors of 81

(i) 4 (ii) 1 (iii) 2 (iv) 0 (v) 3

16. Find the number of prime factors of 810

(i) 3 (ii) 0 (iii) 2 (iv) 1 (v) 4

17. Find the number of prime factors of 3000

(i) 0 (ii) 2 (iii) 3 (iv) 4 (v) 1

18. Find the HCF of $\{4,44\}$

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

19. Find the HCF of $\{30,24,12,25\}$

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

20. Find the HCF of $\{384,120\}$

(i) 21 (ii) 23 (iii) 25 (iv) 24 (v) 26

21. Find the HCF of $\{400,410\}$

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

22. Find the HCF of $\{168,432,456\}$

(i) 23 (ii) 21 (iii) 24 (iv) 25 (v) 27

23. Find the LCM of $\{6,4\}$

(i) 11 (ii) 12 (iii) 13 (iv) 15 (v) 9

24. Find the LCM of $\{45,120\}$

(i) 361 (ii) 357 (iii) 360 (iv) 359 (v) 363

25. Find the LCM of $\{48,72\}$

(i) 145 (ii) 144 (iii) 142 (iv) 146 (v) 143

26. Find the LCM of $\{102,48,36\}$

(i) 2449 (ii) 2448 (iii) 2450 (iv) 2445 (v) 2447

27. Find the LCM of $\{105,300,30,255\}$

(i) 35700 (ii) 35702 (iii) 35701 (iv) 35697 (v) 35699

28. Find the product of LCM and HCF of $\{22,26\}$

(i) 571 (ii) 573 (iii) 574 (iv) 572 (v) 570

Assignment Key

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

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