EduSahara™ Assignment

Name : Prime Factorization

Chapter : Factors and Multiples

Grade : ICSE Grade VI

1. Find the prime factorization of 45

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

2. Find the prime factorization of 87

   (i) $3^2 \times 29$ (ii) 3×27 (iii) 2×29 (iv) 3×32 (v) 3×29

3. Find the prime factorization of 320

   (i) $2^6 \times 3$ (ii) $4^6 \times 5$ (iii) $2^6 \times 5^2$ (iv) $2^6 \times 5$ (v) $2^5 \times 5$

4. Find the prime factorization of 6480

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

5. Find the number of prime factors of 48

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

6. Find the number of prime factors of 69

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

7. Find the number of prime factors of 660

   (i) 1 (ii) 4 (iii) 3 (iv) 5 (v) 7

8. Find the number of prime factors of 5040

   (i) 4 (ii) 3 (iii) 7 (iv) 2 (v) 5

9. Find the total number of factors of 27

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

10. Find the total number of factors of 93

    (i) 3 (ii) 1 (iii) 5 (iv) 7 (v) 4

11. Find the total number of factors of 2070

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

12. Find the total number of factors of 9375

    (i) 13 (ii) 9 (iii) 12 (iv) 14 (v) 11

Assignment Key

1) (ii)	2) (v)	3) (iv)	4) (iii)	5) (iii)	6) (iii)
7) (ii)	8) (i)	9) (ii)	10) (v)	11) (iv)	12) (iii)