EduSahara™ Assignment

Name : Prime Factorization

Chapter : Factors and Multiples

Grade : ICSE Grade VI

1. Find the prime factorization of 46

   (i) 2×20 (ii) 2×22 (iii) 2×23^2 (iv) 4×23 (v) 2×23

2. Find the prime factorization of 62

   (i) 2×30 (ii) 2×29 (iii) $2^2\times31$ (iv) 4×31 (v) 2×31

3. Find the prime factorization of 480

   (i) $2^5\times3\times3$ (ii) $4^5\times3\times5$ (iii) $2^5\times3^2\times5$ (iv) $2^5\times2\times5$ (v) $2^5\times3\times5$

4. Find the prime factorization of 7560

   (i) $2^3\times3^3\times5\times7$ (ii) $2^3\times3^4\times5\times7$ (iii) $2^3\times1\times5\times7$ (iv) $2^3\times6^3\times5\times7$ (v) $2^3\times3^3\times4\times7$

5. Find the number of prime factors of 6

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

6. Find the number of prime factors of 64

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

7. Find the number of prime factors of 152

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

8. Find the number of prime factors of 4680

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

9. Find the total number of factors of 12

   (i) 4 (ii) 7 (iii) 5 (iv) 8 (v) 6

10. Find the total number of factors of 69

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

11. Find the total number of factors of 216

    (i) 15 (ii) 17 (iii) 16 (iv) 18 (v) 13

12. Find the total number of factors of 3240

    (i) 41 (ii) 40 (iii) 43 (iv) 39 (v) 37

Assignment Key

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