EduSahara™ Assignment

Name : Prime Factorization

Chapter : Factors and Multiples

Grade : ICSE Grade VII

1. Find the prime factorization of 32

   (i) 2^6 (ii) 2^4 (iii) 2^5 (iv) $(-1)^5$ (v) 5^5

2. Find the prime factorization of 57

   (i) 3×17 (ii) 6×19 (iii) 3×19^2 (iv) 3×19 (v) 3×18

3. Find the prime factorization of 924

   (i) $2^2 \times 3 \times 7 \times 13$ (ii) $2^2 \times 3 \times 7 \times 11$ (iii) $2^2 \times 1 \times 7 \times 11$ (iv) $2^2 \times 3 \times 6 \times 11$ (v) $2^2 \times 3 \times 7^2 \times 11$

4. Find the prime factorization of 3360

   (i) $2^5 \times 3 \times 5 \times 7$ (ii) $2^5 \times 3 \times 8 \times 7$ (iii) $2^4 \times 3 \times 5 \times 7$ (iv) $2^5 \times 3 \times 5 \times 5$ (v) $2^5 \times 3 \times 5 \times 7^2$

5. Find the number of prime factors of 14

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

6. Find the number of prime factors of 70

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

7. Find the number of prime factors of 380

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

8. Find the number of prime factors of 11088

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

9. Find the total number of factors of 40

   (i) 11 (ii) 7 (iii) 8 (iv) 6 (v) 9

10. Find the total number of factors of 54

    (i) 11 (ii) 9 (iii) 7 (iv) 5 (v) 8

11. Find the total number of factors of 294

    (i) 10 (ii) 12 (iii) 15 (iv) 13 (v) 11

12. Find the total number of factors of 3872

    (i) 15 (ii) 21 (iii) 17 (iv) 18 (v) 19

Assignment Key

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