



1. Find the prime factorization of 4

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

2. Find the prime factorization of 82

- (i)  $2 \times 41^2$  (ii)  $2 \times 41$  (iii)  $2 \times 39$  (iv)  $2 \times 43$  (v)  $2 \times 40$

3. Find the prime factorization of 800

- (i)  $2^4 \times 5^2$  (ii)  $2^5 \times 8^2$  (iii)  $2^5 \times 2^2$  (iv)  $2^6 \times 5^2$  (v)  $2^5 \times 5^2$

4. Find the prime factorization of 2100

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

5. Find the number of prime factors of 12

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

6. Find the number of prime factors of 74

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

7. Find the number of prime factors of 40

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

8. Find the number of prime factors of 576

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

9. Find the prime factorization of 28

- (i)  $2^3 \times 7$  (ii)  $2^2 \times 7$  (iii)  $2 \times 7$  (iv)  $2^2 \times 9$  (v)  $2^{-1} \times 7$

10. Find the prime factorization of 95

- (i)  $5 \times 21$  (ii)  $3 \times 19$  (iii)  $5^2 \times 19$  (iv)  $5 \times 19$  (v)  $5 \times 18$

11. Find the prime factorization of 891

- (i)  $6^4 \times 11$  (ii)  $3^3 \times 11$  (iii)  $3^5 \times 11$  (iv)  $3^4 \times 11$  (v)  $3^4 \times 9$

12. Find the prime factorization of 1944

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

13. Find the number of prime factors of 16

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

14. Find the number of prime factors of 91

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

15. Find the number of prime factors of 988

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

16. Find the number of prime factors of 13750

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

## Assignment Key

1) (iv)	2) (ii)	3) (v)	4) (i)	5) (v)	6) (iii)
7) (iii)	8) (v)	9) (ii)	10) (iv)	11) (iv)	12) (iv)
13) (ii)	14) (iv)	15) (iii)	16) (v)		