



1. Find the prime factorization of 49

- (i) 5^2 (ii) 7 (iii) 7^3 (iv) 7^2 (v) 10^2

2. Find the prime factorization of 81

- (i) 3^5 (ii) 1 (iii) 3^3 (iv) 3^4 (v) 5^4

3. Find the prime factorization of 950

- (i) $2 \times 5^2 \times 19$ (ii) $2 \times 5^2 \times 16$ (iii) $2 \times 5 \times 19$ (iv) $2 \times 5^2 \times 22$ (v) $2^2 \times 5^2 \times 19$

4. Find the prime factorization of 14040

- (i) $2^3 \times 1 \times 5 \times 13$ (ii) $2^3 \times 3^3 \times 4 \times 13$ (iii) $4^3 \times 3^3 \times 5 \times 13$ (iv) $2^3 \times 3^3 \times 5 \times 13^2$ (v) $2^3 \times 3^3 \times 5 \times 13$

5. Find the prime factorization of 4

- (i) 2^{-1} (ii) 5^2 (iii) 2^3 (iv) 2^2 (v) 2

6. Find the prime factorization of 85

- (i) 5×17 (ii) 4×17 (iii) 8×17 (iv) 5×17^2 (v) 3×17

7. Find the prime factorization of 324

- (i) $2^2 \times 3^3$ (ii) $(-1)^2 \times 3^4$ (iii) $5^2 \times 3^4$ (iv) $2^2 \times 3^4$ (v) $2^3 \times 3^4$

8. Find the prime factorization of 1232

- (i) $2^5 \times 7 \times 11$ (ii) $2^4 \times 7 \times 11$ (iii) $2^4 \times 9 \times 11$ (iv) $2^4 \times 7 \times 10$ (v) $(-1)^4 \times 7 \times 11$

9. Find the prime factorization of 8

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

10. Find the prime factorization of 50

- (i) 2×5^2 (ii) 4×5^2 (iii) 1×5^2 (iv) $2^2 \times 5^2$ (v) 2×3^2

11. Find the prime factorization of 630

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

12. Find the prime factorization of 9984

- (i) $(-1)^8 \times 3 \times 13$ (ii) $2^8 \times 3 \times 13^2$ (iii) $2^8 \times 3 \times 15$ (iv) $2^8 \times 3 \times 13$ (v) $2^8 \times 3 \times 12$

Assignment Key

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