



1. Find the prime factorization of 45

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

2. Find the prime factorization of 58

- (i) 1×29 (ii) 4×29 (iii) -1×29 (iv) 2×29^2 (v) 2×29

3. Find the prime factorization of 160

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

4. Find the prime factorization of 1600

- (i) $2^4 \times 5^2$ (ii) $2^6 \times 5^2$ (iii) $4^6 \times 5^2$ (iv) $2^6 \times 5$ (v) $2^7 \times 5^2$

5. Find the number of prime factors of 21

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

6. Find the number of prime factors of 52

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

7. Find the number of prime factors of 180

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

8. Find the number of prime factors of 672

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

9. Find the prime factorization of 34

- (i) 2×17 (ii) $2^{-2} \times 17$ (iii) $2^2 \times 17$ (iv) 2×16 (v) 5×17

10. Find the prime factorization of 68

- (i) $2^2 \times 16$ (ii) $2^3 \times 17$ (iii) $4^2 \times 17$ (iv) $2^2 \times 17$ (v) $(-1)^2 \times 17$

11. Find the prime factorization of 128

- (i) 2^8 (ii) 2^6 (iii) 2^7 (iv) 2^4 (v) 5^7

12. Find the prime factorization of 10500

- (i) $2^2 \times 3 \times 5^2 \times 7$ (ii) $2^3 \times 3 \times 5^3 \times 7$ (iii) $2^2 \times 3 \times 3^3 \times 7$ (iv) $2^2 \times 3 \times 5^3 \times 9$ (v) $2^2 \times 3 \times 5^3 \times 7$

13. Find the number of prime factors of 40

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

14. Find the number of prime factors of 93

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

15. Find the number of prime factors of 936

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

16. Find the number of prime factors of 4320

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

Assignment Key

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