



1. Find the prime factorization of 4

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

2. Find the prime factorization of 85

- (i) 7×17 (ii) 5×17 (iii) 5×14 (iv) 5×16 (v) $5^2 \times 17$

3. Find the prime factorization of 168

- (i) $2^3 \times 3 \times 6$ (ii) $2^3 \times 3 \times 7^2$ (iii) $2^3 \times 3 \times 7$ (iv) $0 \times 3 \times 7$ (v) $2^3 \times 6 \times 7$

4. Find the prime factorization of 3360

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

5. Find the prime factorization of 16

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

6. Find the prime factorization of 99

- (i) 3×11 (ii) $3^2 \times 11$ (iii) $3^3 \times 11$ (iv) $3^2 \times 13$ (v) $3^2 \times 9$

7. Find the prime factorization of 72

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

8. Find the prime factorization of 4800

- (i) $5^6 \times 3 \times 5^2$ (ii) $2^6 \times 1 \times 5^2$ (iii) $2^6 \times 3 \times 5^2$ (iv) $2^6 \times 3 \times 5^3$ (v) $2^5 \times 3 \times 5^2$

9. Find the prime factorization of 39

- (i) $3^{-2} \times 13$ (ii) 3×13 (iii) 2×13 (iv) 3×15 (v) $3^2 \times 13$

10. Find the prime factorization of 82

- (i) 2×41 (ii) 1×41 (iii) 2×43 (iv) 2×41^2 (v) $2^{-2} \times 41$

11. Find the prime factorization of 340

- (i) $2^2 \times 7 \times 17$ (ii) $2^2 \times 3 \times 17$ (iii) $2^2 \times 5 \times 17$ (iv) $2^2 \times 5^2 \times 17$ (v) $2^2 \times 4 \times 17$

12. Find the prime factorization of 9504

- (i) $5^5 \times 3^3 \times 11$ (ii) $2^5 \times 3^3 \times 11$ (iii) $2^3 \times 3^3 \times 11$ (iv) $2^4 \times 3^3 \times 11$ (v) $2^5 \times 3^4 \times 11$

Assignment Key

1) (iii)

2) (ii)

3) (iii)

4) (iii)

5) (i)

6) (ii)

7) (iii)

8) (iii)

9) (ii)

10) (i)

11) (iii)

12) (ii)