



1. Find the prime factorization of 38

- (i) $2^{-1} \times 19$ (ii) 2×19 (iii) 4×19 (iv) 2×19^2 (v) 2×18

2. Find the prime factorization of 63

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

3. Find the prime factorization of 1140

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

4. Find the prime factorization of 480

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

5. Find the prime factorization of 6

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

6. Find the prime factorization of 75

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

7. Find the prime factorization of 2254

- (i) $2 \times 9^2 \times 23$ (ii) $2 \times 7^2 \times 23$ (iii) $2 \times 7 \times 23$ (iv) $-1 \times 7^2 \times 23$ (v) $2 \times 7^3 \times 23$

8. Find the prime factorization of 7776

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

9. Find the prime factorization of 12

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

10. Find the prime factorization of 88

- (i) $2^3 \times 10$ (ii) $(-1)^3 \times 11$ (iii) $2^3 \times 11^2$ (iv) $2^3 \times 11$ (v) $2^3 \times 14$

11. Find the prime factorization of 920

- (i) $2^3 \times 5 \times 20$ (ii) $2^3 \times 5 \times 23$ (iii) $2^2 \times 5 \times 23$ (iv) $2^3 \times 5 \times 25$ (v) $2^4 \times 5 \times 23$

12. Find the prime factorization of 3402

- (i) $2 \times 3^5 \times 6$ (ii) $2 \times 3^5 \times 7$ (iii) $2 \times 5^5 \times 7$ (iv) $2 \times 3^2 \times 7$ (v) $2 \times 3^6 \times 7$

Assignment Key

1) (ii)

2) (iv)

3) (iv)

4) (v)

5) (iii)

6) (iii)

7) (ii)

8) (iii)

9) (v)

10) (iv)

11) (ii)

12) (ii)