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1. Find the prime factorization of 3024

   (i) $2^4 \times 3^3 \times 10$ (ii) $(-1)^4 \times 3^3 \times 7$ (iii) $2^4 \times 3^3 \times 7$ (iv) $2^4 \times 3^4 \times 7$ (v) $2^4 \times 3^3 \times 6$

2. Find the prime factorization of 17496

   (i) $2^3 \times 3^7$ (ii) $4^3 \times 3^7$ (iii) $2^2 \times 3^7$ (iv) $(-1)^3 \times 3^7$ (v) $2^3 \times 3^8$

3. Find the prime factorization of 735

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

4. Find the prime factorization of 6720

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

5. Find the prime factorization of 525

   (i) $3 \times 5 \times 7$ (ii) $1 \times 5^2 \times 7$ (iii) $3 \times 5^2 \times 10$ (iv) $3 \times 5^2 \times 7$ (v) $3 \times 5^2 \times 7^2$

6. Find the prime factorization of 16200

   (i) $2^3 \times 3^4 \times 7^2$ (ii) $2^3 \times 3^4 \times 5$ (iii) $2^3 \times 3^4 \times 5^2$ (iv) $(-1)^3 \times 3^4 \times 5^2$ (v) $2^3 \times 3^5 \times 5^2$

7. Find the prime factorization of 224

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

8. Find the prime factorization of 34560

   (i) $(-1)^8 \times 3^3 \times 5$ (ii) $2^8 \times 3^3 \times 5$ (iii) $2^8 \times 3^3 \times 5^2$ (iv) $2^8 \times 6^3 \times 5$ (v) $2^8 \times 3^2 \times 5$

9. Find the prime factorization of 324

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

10. Find the prime factorization of 7776

    (i) $2^5 \times 1$ (ii) $2^5 \times 3^6$ (iii) $2^5 \times 6^5$ (iv) $2^5 \times 3^5$ (v) $2^4 \times 3^5$

Assignment Key

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

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