



1. Find the prime factorization of 336

- (i) $2^4 \times 3 \times 7$ (ii) $2^4 \times 3 \times 5$ (iii) $5^4 \times 3 \times 7$ (iv) $2^4 \times 3 \times 6$ (v) $2^4 \times 3 \times 7^2$

2. Find the prime factorization of 8820

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

3. Find the exponential notation of

$6 \times 6 \times 6 \times 6 \times 6$

- (i) 3^5 (ii) 6^6 (iii) 6^4 (iv) 6^5 (v) 8^5

4. Find the exponential notation of

$-9 \times -9 \times -9 \times -9 \times -9 \times -9$

- (i) $(-9)^7$ (ii) $(-6)^6$ (iii) $(-9)^6$ (iv) $(-12)^6$ (v) $(-9)^5$

5. Find the exponential notation of

$-10 \times -10 \times -10 \times -10$

- (i) $(-10)^3$ (ii) $(-13)^4$ (iii) $(-7)^4$ (iv) $(-10)^5$ (v) $(-10)^4$

6. Find the exponential notation of

$12 \times 12 \times 12 \times 12 \times 12 \times 12 \times 12$

- (i) 12^8 (ii) 12^6 (iii) 12^7 (iv) 15^7 (v) 10^7

Find the exponential notation of

7. $\frac{3}{2} \times \frac{3}{2} \times \frac{3}{2} \times \frac{3}{2} \times \frac{3}{2} \times \frac{3}{2} \times \frac{3}{2}$

- (i) $\left(\frac{3}{2}\right)^8$ (ii) $\left(\frac{3}{2}\right)^7$ (iii) $\left(\frac{1}{2}\right)^7$ (iv) $\left(\frac{3}{2}\right)^6$ (v) $\left(\frac{5}{2}\right)^7$

Find the exponential notation of

8. $\frac{15}{14} \times \frac{15}{14} \times \frac{15}{14} \times \frac{15}{14}$

- (i) $\left(\frac{15}{14}\right)^3$ (ii) $\left(\frac{17}{14}\right)^4$ (iii) $\left(\frac{13}{14}\right)^4$ (iv) $\left(\frac{15}{14}\right)^4$ (v) $\left(\frac{15}{14}\right)^5$

Find the exponential notation of

9. $\frac{-4}{1} \times \frac{-4}{1} \times \frac{-4}{1} \times \frac{-4}{1} \times \frac{-4}{1} \times \frac{-4}{1} \times \frac{-4}{1} \times \frac{-4}{1} \times \frac{-4}{1}$

- (i) $(-4)^7$ (ii) $(-7)^8$ (iii) $(-4)^9$ (iv) $(-1)^8$ (v) $(-4)^8$

Find the exponential notation of

10. $(\frac{-15}{16}) \times (\frac{-15}{16}) \times (\frac{-15}{16}) \times (\frac{-15}{16}) \times (\frac{-15}{16})$

- (i) $(\frac{-17}{16})^5$ (ii) $(\frac{-15}{16})^6$ (iii) $(\frac{-13}{16})^5$ (iv) $(\frac{-15}{16})^4$ (v) $(\frac{-15}{16})^5$

11. Simplify the expression $(\frac{9}{2})^5 \times (\frac{9}{2})^6$

- (i) $(\frac{9}{2})^{12}$ (ii) $(\frac{7}{2})^{11}$ (iii) $(\frac{11}{2})^{11}$ (iv) $(\frac{9}{2})^{10}$ (v) $(\frac{9}{2})^{11}$

12. Simplify the expression $(-9)^6 \times (-9)^6$

- (i) $(-7)^{12}$ (ii) $(-12)^{12}$ (iii) $(-9)^{13}$ (iv) $(-9)^{11}$ (v) $(-9)^{12}$

13. Simplify the expression $(\frac{5}{2})_{(-9)} \times (\frac{5}{2})_{(-6)} \times (\frac{5}{2})_{(-9)}$

- (i) $(\frac{5}{2})_{(-486)}$ (ii) $(\frac{5}{2})_{(-484)}$ (iii) $(-486)^5$ (iv) $(\frac{5}{2})_{(-488)}$ (v) $(\frac{5}{4})_{(-486)}$

14. Find the prime factorization of 256

- (i) 2^7 (ii) 2^6 (iii) 2^8 (iv) 2^9 (v) 5^8

15. Find the prime factorization of 2160

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

Assignment Key

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

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