



1. The base in the term 8^6 is

- (i) 8 (ii) 5 (iii) 6 (iv) -8 (v) -6

2. The exponent in the term 4^8 is

- (i) -4 (ii) 5 (iii) 4 (iv) 8 (v) -8

3. The power in the term 4^8 is

- (i) 5 (ii) 8 (iii) -8 (iv) -4 (v) 4

4. The base in the term $\left(\frac{9}{8}\right)^9$ is

- (i) -9 (ii) $\frac{9}{8}$ (iii) $\left(-\frac{9}{8}\right)$ (iv) $\frac{7}{8}$ (v) 9

5. The exponent in the term $\left(\frac{7}{3}\right)^5$ is

- (i) 5 (ii) $\frac{7}{3}$ (iii) 3 (iv) -5 (v) $\left(-\frac{7}{3}\right)$

6. The power in the term $\left(\frac{7}{5}\right)^4$ is

- (i) 4 (ii) $\left(-\frac{7}{5}\right)$ (iii) -4 (iv) $\frac{7}{5}$ (v) 1

7. The exponent in the term $\left(\frac{9}{8}\right)^{(5/4)}$ is

- (i) $\left(-\frac{5}{4}\right)$ (ii) $\frac{3}{4}$ (iii) $\frac{5}{4}$ (iv) $\frac{9}{8}$ (v) $\left(-\frac{9}{8}\right)$

8. $(-5 \times 6)^{-9} =$

- (i) $(-5)^{-9} \times 4^{-9}$ (ii) $(-5)^{-9} \times 6^{-9}$ (iii) $(-5)^{-9} \times 6^{-8}$ (iv) $(-5)^{-9} \times 6^{-10}$ (v) $(-5)^{-9} \times 8^{-9}$

9. $(-5 \times 2 \times 3)^9 =$

- (i) $(-5)^9 \times 2^9 \times 3^9$ (ii) $(-5)^9 \times 2^{10} \times 3^{10}$ (iii) $(-5)^9 \times (-1)^9 \times 1$ (iv) $(-5)^9 \times 2^8 \times 3^8$ (v) $(-5)^9 \times 5^9 \times 6^9$

10. $\left(\left(\frac{-2}{9}\right) \times \frac{8}{5}\right)^{-6} =$

- (i) $\left(\frac{-2}{9}\right)^{-6} \times \left(\frac{8}{5}\right)^{-5}$ (ii) $\left(\frac{-2}{9}\right)^{-6} \times \left(\frac{8}{5}\right)^{-6}$ (iii) $\left(\frac{-2}{9}\right)^{-6} \times 2^{-6}$ (iv) $\left(\frac{-2}{9}\right)^{-6} \times \left(\frac{8}{5}\right)^{-7}$ (v) $\left(\frac{-2}{9}\right)^{-6} \times \left(\frac{6}{5}\right)^{-6}$

11. $\left(\left(\frac{-9}{4}\right) \times \frac{8}{3} \times \frac{7}{4}\right)^7 =$

- (i) $\left(\frac{-9}{4}\right)^7 \times 2^7 \times \left(\frac{5}{4}\right)^7$ (ii) $\left(\frac{-9}{4}\right)^7 \times \left(\frac{8}{3}\right)^7 \times \left(\frac{7}{4}\right)^7$ (iii) $\left(\frac{-9}{4}\right)^7 \times \left(\frac{8}{3}\right)^8 \times \left(\frac{7}{4}\right)^8$ (iv) $\left(\frac{-9}{4}\right)^7 \times \left(\frac{8}{3}\right)^6 \times \left(\frac{7}{4}\right)^6$
 (v) $\left(\frac{-9}{4}\right)^7 \times \left(\frac{10}{3}\right)^7 \times \left(\frac{9}{4}\right)^7$

12. Find the exponential notation of $5 \times 5 \times 5 \times 5 \times 5 \times 5 \times 5$

- (i) 5^8 (ii) 5^7 (iii) 8^7 (iv) 5^6 (v) 3^7

13. Find the exponential notation of $-9 \times -9 \times -9$

- (i) $(-9)^3$ (ii) $(-9)^2$ (iii) $(-9)^4$ (iv) $(-7)^3$ (v) $(-11)^3$

14. Find the exponential notation of $-11 \times -11 \times -11 \times -11 \times -11 \times -11 \times -11 \times -11$

- (i) $(-13)^8$ (ii) $(-11)^7$ (iii) $(-11)^9$ (iv) $(-11)^8$ (v) $(-8)^8$

15. Find the exponential notation of $19 \times 19 \times 19$

- (i) 19^3 (ii) 16^3 (iii) 19^4 (iv) 19^2 (v) 21^3

Find the exponential notation of

16. $\frac{8}{5} \times \frac{8}{5} \times \frac{8}{5} \times \frac{8}{5} \times \frac{8}{5} \times \frac{8}{5} \times \frac{8}{5} \times \frac{8}{5} \times \frac{8}{5}$

- (i) $\left(\frac{6}{5}\right)^8$ (ii) $\left(\frac{8}{5}\right)^8$ (iii) $\left(\frac{8}{5}\right)^7$ (iv) $\left(\frac{8}{5}\right)^9$ (v) 2^8

Find the exponential notation of

17. $\frac{18}{13} \times \frac{18}{13} \times \frac{18}{13}$

- (i) $\left(\frac{16}{13}\right)^3$ (ii) $\left(\frac{18}{13}\right)^3$ (iii) $\left(\frac{18}{13}\right)^4$ (iv) $\left(\frac{20}{13}\right)^3$ (v) $\left(\frac{18}{13}\right)^2$

Find the exponential notation of

18. $\left(\frac{-2}{3}\right) \times \left(\frac{-2}{3}\right) \times \left(\frac{-2}{3}\right) \times \left(\frac{-2}{3}\right) \times \left(\frac{-2}{3}\right) \times \left(\frac{-2}{3}\right) \times \left(\frac{-2}{3}\right) \times \left(\frac{-2}{3}\right)$

- (i) $\left(\frac{-4}{3}\right)^8$ (ii) $\left(\frac{-2}{3}\right)^9$ (iii) $\left(\frac{-2}{3}\right)^7$ (iv) $\left(\frac{-2}{3}\right)^{11}$ (v) $\left(\frac{-2}{3}\right)^8$

Find the exponential notation of

19. $\left(\frac{-16}{15}\right) \times \left(\frac{-16}{15}\right) \times \left(\frac{-16}{15}\right) \times \left(\frac{-16}{15}\right) \times \left(\frac{-16}{15}\right) \times \left(\frac{-16}{15}\right) \times \left(\frac{-16}{15}\right)$

- (i) $\left(\frac{-16}{15}\right)^7$ (ii) $\left(\frac{-14}{15}\right)^7$ (iii) $\left(\frac{-16}{15}\right)^6$ (iv) $\left(\frac{-16}{15}\right)^8$ (v) $\left(\frac{-6}{5}\right)^7$

20. $g^4 =$

- (i) $4 \times g \times g \times g \times g$ (ii) $g \times g \times g$ (iii) $g \times g \times g \times g$ (iv) $g \times g \times g \times g \times g$ (v) $-g \times g \times g \times g$

21. $j^2 k^2 =$

- (i) $-2 \times j \times j \times k \times k$ (ii) $j \times k \times k$ (iii) $j \times j \times j \times k \times k$ (iv) $4 \times j \times j \times k \times k$ (v) $j \times j \times k \times k$

22. $21m^3 n^4 o^2 =$

- (i) $19 \times m \times m \times m \times n \times n \times n \times n \times o \times o$ (ii) $21 \times m \times m \times m \times n \times n \times n \times n \times o \times o$
(iii) $21 \times m \times m \times m \times m \times n \times n \times n \times n \times o \times o$ (iv) $21 \times m \times m \times n \times n \times n \times n \times o \times o$
(v) $24 \times m \times m \times m \times n \times n \times n \times n \times o \times o$

23. $18 \times j \times j \times j \times j =$

- (i) $18j^5$ (ii) $16j^4$ (iii) $18j^4$ (iv) $18j^3$ (v) $21j^4$

24. $10 \times h \times h \times i \times i =$

- (i) $10h^3 i^2$ (ii) $12h^2 i^2$ (iii) $10h^2 i^2$ (iv) $10hi^2$ (v) $8h^2 i^2$

25. $e \times e \times f \times f \times f \times f \times g \times g =$

- (i) $e^3 f^4 g^2$ (ii) $-2e^2 f^4 g^2$ (iii) $ef^4 g^2$ (iv) $e^2 f^4 g^2$ (v) $4e^2 f^4 g^2$

Assignment Key

1) (i)	2) (iv)	3) (ii)	4) (ii)	5) (i)	6) (i)
7) (iii)	8) (ii)	9) (i)	10) (ii)	11) (ii)	12) (ii)
13) (i)	14) (iv)	15) (i)	16) (ii)	17) (ii)	18) (v)
19) (i)	20) (iii)	21) (v)	22) (ii)	23) (iii)	24) (iii)
25) (iv)					