



1. The base in the term 9^6 is

- (i) 9 (ii) 6 (iii) -9 (iv) -6

2. The exponent in the term 4^9 is

- (i) 9 (ii) 4 (iii) 6 (iv) -9 (v) -4

3. The power in the term 8^3 is

- (i) -3 (ii) -8 (iii) 1 (iv) 3 (v) 8

7

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

- (i) 7 (ii) $\frac{7}{6}$ (iii) $(-\frac{7}{6})$ (iv) $\frac{5}{6}$ (v) -7

2

5. The exponent in the term $\left(\frac{9}{2}\right)^2$ is

- (i) -2 (ii) $(-\frac{9}{2})$ (iii) 2 (iv) 0 (v) $\frac{9}{2}$

7

6. The power in the term $\left(\frac{8}{5}\right)^7$ is

- (i) 7 (ii) $(-\frac{8}{5})$ (iii) 4 (iv) -7 (v) $\frac{8}{5}$

3

7. The exponent in the term $\left(\frac{7}{2}\right)^3$ is

- (i) $(-\frac{7}{2})$ (ii) $\frac{7}{2}$ (iii) -3 (iv) $\frac{3}{1}$ (v) 1

8. $(-2 \times -5)^5 =$

- (i) $(-2)^5 \times (-8)^5$ (ii) $(-2)^5 \times (-2)^5$ (iii) $(-2)^5 \times (-5)^5$ (iv) $(-2)^5 \times (-5)^6$ (v) $(-2)^5 \times (-5)^4$

9. $(3 \times 6 \times -7)^8 =$

- (i) $3^8 \times 6^8 \times (-7)^8$ (ii) $3^8 \times 6^7 \times (-7)^7$ (iii) $3^8 \times 4^8 \times (-9)^8$ (iv) $3^8 \times 8^8 \times (-5)^8$ (v) $3^8 \times 6^9 \times (-7)^9$

10. $(\frac{5}{1} \times \frac{-9}{1})^{-6} =$

- (i) $5^{-6} \times (-9)^{-6}$ (ii) $5^{-6} \times (-11)^{-6}$ (iii) $5^{-6} \times (-9)^{-7}$ (iv) $5^{-6} \times (-6)^{-6}$ (v) $5^{-6} \times (-9)^{-5}$

11. $(\frac{8}{7} \times (\frac{-7}{4}) \times \frac{5}{2})^{-3} =$

- (i) $(\frac{8}{7})^{-3} \times (\frac{-7}{4})^{-4} \times (\frac{5}{2})^{-4}$ (ii) $(\frac{8}{7})^{-3} \times (\frac{-9}{4})^{-3} \times (\frac{3}{2})^{-3}$ (iii) $(\frac{8}{7})^{-3} \times (\frac{-7}{4})^{-2} \times (\frac{5}{2})^{-2}$

- (iv) $(\frac{8}{7})^{-3} \times (\frac{-7}{4})^{-3} \times (\frac{5}{2})^{-3}$ (v) $(\frac{8}{7})^{-3} \times (\frac{-5}{4})^{-3} \times (\frac{7}{2})^{-3}$

12. Find the exponential notation of

$6 \times 6 \times 6$

- (i) 8^3 (ii) 6^4 (iii) 6^2 (iv) 4^3 (v) 6^3

13. Find the exponential notation of

$-4 \times -4 \times -4 \times -4 \times -4 \times -4 \times -4$

- (i) $(-4)^8$ (ii) $(-6)^7$ (iii) $(-4)^7$ (iv) $(-4)^6$ (v) $(-1)^7$

14. Find the exponential notation of

$-16 \times -16 \times -16 \times -16$

- (i) $(-16)^4$ (ii) $(-16)^5$ (iii) $(-16)^3$ (iv) $(-14)^4$ (v) $(-18)^4$

15. Find the exponential notation of

$17 \times 17 \times 17 \times 17 \times 17 \times 17 \times 17 \times 17$

- (i) 14^8 (ii) 17^7 (iii) 19^8 (iv) 17^9 (v) 17^8

Find the exponential notation of

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

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

Find the exponential notation of

17. $\frac{15}{13} \times \frac{15}{13} \times \frac{15}{13} \times \frac{15}{13}$

- (i) 1 (ii) $\left(\frac{15}{13}\right)^3$ (iii) $\left(\frac{15}{13}\right)^5$ (iv) $\left(\frac{15}{13}\right)^4$ (v) $\left(\frac{17}{13}\right)^4$

Find the exponential notation of

18. $\left(\frac{-9}{5}\right) \times \left(\frac{-9}{5}\right) \times \left(\frac{-9}{5}\right) \times \left(\frac{-9}{5}\right) \times \left(\frac{-9}{5}\right) \times \left(\frac{-9}{5}\right)$

- (i) $\left(\frac{-9}{5}\right)^5$ (ii) $\left(\frac{-11}{5}\right)^6$ (iii) $\left(\frac{-7}{5}\right)^6$ (iv) $\left(\frac{-9}{5}\right)^7$ (v) $\left(\frac{-9}{5}\right)^6$

Find the exponential notation of

19. $\left(\frac{-17}{19}\right) \times \left(\frac{-17}{19}\right) \times \left(\frac{-17}{19}\right) \times \left(\frac{-17}{19}\right) \times \left(\frac{-17}{19}\right) \times \left(\frac{-17}{19}\right) \times \left(\frac{-17}{19}\right) \times \left(\frac{-17}{19}\right)$

- (i) $\left(\frac{-17}{19}\right)^9$ (ii) $\left(\frac{-17}{19}\right)^7$ (iii) $\left(\frac{-17}{19}\right)^8$ (iv) $(-1)^8$ (v) $\left(\frac{-15}{19}\right)^8$

20. $27m^3 =$

- (i) $24 \times m \times m \times m$ (ii) $27 \times m \times m \times m \times m$ (iii) $27 \times m \times m$ (iv) $27 \times m \times m \times m$ (v) $30 \times m \times m \times m$

21. $19f^2g^4 =$

- (i) $22 \times f \times f \times g \times g \times g \times g$ (ii) $19 \times f \times f \times g \times g \times g \times g$ (iii) $19 \times f \times f \times f \times g \times g \times g \times g$ (iv) $19 \times f \times g \times g \times g \times g$
(v) $17 \times f \times f \times g \times g \times g \times g$

22. $22c^2d^3e^2 =$

- (i) $22 \times c \times d \times d \times d \times e \times e$ (ii) $22 \times c \times c \times c \times d \times d \times d \times e \times e$ (iii) $22 \times c \times c \times d \times d \times d \times d \times e \times e$
(iv) $19 \times c \times c \times d \times d \times d \times e \times e$ (v) $24 \times c \times c \times d \times d \times d \times e \times e$

23. $p \times p \times p \times p =$

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

24. $17 \times f \times f \times f \times g \times g \times g =$

- (i) $17f^4g^4$ (ii) $17f^3g^4$ (iii) $20f^4g^4$ (iv) $17f^5g^4$ (v) $14f^4g^4$

25. $8 \times p \times p \times p \times q \times q \times q \times r \times r \times r \times r =$

- (i) $8p^3q^3r^4$ (ii) $5p^4q^3r^4$ (iii) $8p^5q^3r^4$ (iv) $10p^4q^3r^4$ (v) $8p^4q^3r^4$

Assignment Key

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

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