EduSahara™ Assignment

Name : Exponents Concepts

Chapter : Exponents

Grade : ICSE Grade VII

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1. The base in the term 3^2 is

   (i) -2 (ii) 3 (iii) 2 (iv) 1 (v) -3

2. The exponent in the term 8^{16} is

   (i) 8 (ii) 16 (iii) 14 (iv) -8 (v) -16

3. The power in the term 7^6 is

   (i) 7 (ii) -7 (iii) -6 (iv) 6 (v) 3

4. The base in the term $\left(\frac{8}{3}\right)^7$ is

   (i) $\frac{8}{3}$ (ii) $(\frac{-8}{3})$ (iii) 2 (iv) -7 (v) 7

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

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

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

   (i) 2 (ii) $(\frac{-7}{6})$ (iii) $\frac{7}{6}$ (iv) 4 (v) -4

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

   (i) $\frac{7}{3}$ (ii) 2 (iii) $(\frac{-7}{3})$ (iv) -5 (v) $\frac{5}{1}$

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

   (i) $6^{-9} \times (-5)^{-9}$ (ii) $6^{-9} \times (-7)^{-10}$ (iii) $6^{-9} \times (-7)^{-9}$ (iv) $6^{-9} \times (-10)^{-9}$ (v) $6^{-9} \times (-7)^{-8}$

9. $(7 \times -7 \times -5)^{5} =$

(i) $7^{5} \times (-7)^{6} \times (-5)^{6}$ (ii) $7^{5} \times (-9)^{5} \times (-7)^{5}$ (iii) $7^{5} \times (-5)^{5} \times (-2)^{5}$ (iv) $7^{5} \times (-7)^{5} \times (-5)^{5}$ (v) $7^{5} \times (-7)^{4} \times (-5)^{4}$

10. $\left(\frac{-9}{1} \times \frac{4}{3}\right)^{-7} =$

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

11. $\left(\left(\frac{-7}{9}\right) \times \left(\frac{-2}{3}\right) \times \left(\frac{-9}{4}\right)\right)^{-6} =$

(i) $\left(\frac{-7}{9}\right)^{-6} \times \left(\frac{-2}{3}\right)^{-7} \times \left(\frac{-9}{4}\right)^{-7}$ (ii) $\left(\frac{-7}{9}\right)^{-6} \times \left(\frac{-2}{3}\right)^{-3} \times \left(\frac{-7}{4}\right)^{-6}$ (iii) $\left(\frac{-7}{9}\right)^{-6} \times \left(\frac{-4}{3}\right)^{-6} \times \left(\frac{-11}{4}\right)^{-6}$

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

12. Find the exponential notation of
$6 \times 6 \times 6$

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

13. Find the exponential notation of
$-2 \times -2 \times -2 \times -2 \times -2 \times -2 \times -2$

(i) 1 (ii) $(-2)^{7}$ (iii) $(-2)^{8}$ (iv) $(-2)^{6}$ (v) $(-4)^{7}$

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

(i) $(-11)^{4}$ (ii) $(-13)^{3}$ (iii) $(-11)^{2}$ (iv) $(-11)^{3}$ (v) $(-9)^{3}$

15. Find the exponential notation of
$18 \times 18 \times 18 \times 18 \times 18 \times 18$

(i) 18^{5} (ii) 18^{7} (iii) 21^{6} (iv) 18^{6} (v) 15^{6}

16. Find the exponential notation of
$\frac{7}{4} \times \frac{7}{4} \times \frac{7}{4} \times \frac{7}{4} \times \frac{7}{4} \times \frac{7}{4} \times \frac{7}{4}$

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

Find the exponential notation of

17. $\frac{17}{11} \times \frac{17}{11} \times \frac{17}{11} \times \frac{17}{11} \times \frac{17}{11} \times \frac{17}{11}$

(i) $\left(\frac{17}{11}\right)^{5}$ (ii) $\left(\frac{17}{11}\right)^{6}$ (iii) $\left(\frac{19}{11}\right)^{6}$ (iv) $\left(\frac{15}{11}\right)^{6}$ (v) $\left(\frac{17}{11}\right)^{7}$

Find the exponential notation of

18. $(\frac{-8}{9}) \times (\frac{-8}{9}) \times (\frac{-8}{9}) \times (\frac{-8}{9}) \times (\frac{-8}{9}) \times (\frac{-8}{9}) \times (\frac{-8}{9}) \times (\frac{-8}{9})$

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

Find the exponential notation of

19. $(\frac{-11}{16}) \times (\frac{-11}{16}) \times (\frac{-11}{16}) \times (\frac{-11}{16})$

(i) $\left(\frac{-11}{16}\right)^{4}$ (ii) $\left(\frac{-11}{16}\right)^{5}$ (iii) $\left(\frac{-13}{16}\right)^{4}$ (iv) $\left(\frac{-9}{16}\right)^{4}$ (v) $\left(\frac{-11}{16}\right)^{3}$

20. $j^4 =$

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

21. $e^4 f^2 =$

(i) $-2 \times e \times e \times e \times e \times f \times f$ (ii) $e \times e \times e \times f \times f$ (iii) $e \times e \times e \times e \times e \times f \times f$ (iv) $4 \times e \times e \times e \times e \times f \times f$

(v) $e \times e \times e \times e \times f \times f$

22. $h^2 i^3 j^2 =$

(i) $-h \times h \times i \times i \times i \times j \times j$ (ii) $4 \times h \times h \times i \times i \times i \times j \times j$ (iii) $h \times h \times i \times i \times i \times j \times j$ (iv) $h \times h \times h \times i \times i \times i \times j \times j$

(v) $h \times i \times i \times i \times j \times j$

23. $29 \times n \times n =$

(i) $29n$ (ii) $26n^2$ (iii) $29n^2$ (iv) $29n^3$ (v) $31n^2$

24. $20 \times c \times c \times d \times d \times d =$

(i) $18c^2 d^3$ (ii) $20c^3 d^3$ (iii) $20cd^3$ (iv) $22c^2 d^3$ (v) $20c^2 d^3$

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

(i) $d^5 e^2 f^4$ (ii) $-d^4 e^2 f^4$ (iii) $4d^4 e^2 f^4$ (iv) $d^3 e^2 f^4$ (v) $d^4 e^2 f^4$

Assignment Key

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

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