

EduSahara™ Learning Center Assignment

Grade : Class VIII, SSC

Chapter : Exponents and Powers

Name : Exercise 2

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1. $7^8 =$

(i) $\left(\frac{-1}{7}\right)^{-8}$ (ii) $\left(\frac{1}{7}\right)^{-8}$ (iii) $\left(\frac{1}{7}\right)^{-7}$ (iv) $\left(\frac{3}{7}\right)^{-8}$ (v) $\left(\frac{1}{7}\right)^{-9}$

2. $(-5)^{-5} =$

(i) $\left(\frac{-1}{5}\right)^6$ (ii) $\left(\frac{-1}{5}\right)^4$ (iii) $\left(\frac{-3}{5}\right)^5$ (iv) $\left(\frac{-1}{5}\right)^5$ (v) $\left(\frac{1}{5}\right)^5$

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

(i) $\left(\frac{-11}{7}\right)^8$ (ii) $\left(\frac{-9}{7}\right)^8$ (iii) $(-1)^8$ (iv) $\left(\frac{-9}{7}\right)^7$ (v) $\left(\frac{-9}{7}\right)^9$

4. $\left(\frac{7}{2}\right)^{(-8/9)} =$

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

5. $3^8 =$

- (i) 1 (ii) $\left(\frac{1}{3}\right)^{-7}$ (iii) $\left(\frac{1}{3}\right)^{-8}$ (iv) $\left(\frac{1}{3}\right)^{-9}$ (v) $\left(\frac{-1}{3}\right)^{-8}$
-

6. $3^{-7} =$

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

7. $\left(\frac{-5}{2}\right)^{-6} =$

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

8. $\left(\frac{8}{5}\right)^{(-3/7)} =$

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

9. $(-7)^8 =$

- (i) $\left(\frac{1}{7}\right)^{-8}$ (ii) $\left(\frac{-1}{7}\right)^{-7}$ (iii) $\left(\frac{-1}{7}\right)^{-8}$ (iv) $\left(\frac{-3}{7}\right)^{-8}$ (v) $\left(\frac{-1}{7}\right)^{-9}$
-

10. $7^{-8} =$

- (i) $\left(\frac{-1}{7}\right)^8$ (ii) $\left(\frac{1}{7}\right)^8$ (iii) $\left(\frac{3}{7}\right)^8$ (iv) $\left(\frac{1}{7}\right)^7$ (v) $\left(\frac{1}{7}\right)^9$
-

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

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

12. $\left(\frac{-6}{5}\right)^{-2} =$

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

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