

**EduSahara™ Learning Center Assignment****Grade : Class VIII, SSC****Chapter : Exponents and Powers****Name : Finding Values of Expressions****Licensed To : Teachers and Students for non-commercial use**

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1. The value of  $(-3)^2 + (-2)^3$

(i) 2 (ii) 4 (iii) 1 (iv) -2 (v) 0

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2. The value of  $5^{-3} + (-3)^{-2}$

(i)  $\frac{44}{375}$  (ii)  $\frac{136}{1125}$  (iii)  $\frac{134}{1125}$  (iv)  $\frac{134}{1123}$  (v)  $\left(\frac{134}{1125}\right)^2$

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3. The value of  $\left(\frac{-1}{2}\right)^2 + \left(\frac{1}{3}\right)^3$

(i)  $\frac{31}{108}$  (ii)  $\left(\frac{31}{108}\right)^2$  (iii)  $\frac{31}{106}$  (iv)  $\frac{11}{36}$  (v)  $\frac{29}{108}$

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4. The value of  $\left(\frac{-5}{2}\right)^{-3} + \left(\frac{-1}{3}\right)^{-2}$

(i)  $\left(\frac{1117}{125}\right)^2$  (ii)  $\frac{223}{25}$  (iii)  $\frac{1117}{123}$  (iv)  $\frac{1119}{125}$  (v)  $\frac{1117}{125}$

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5. The value of  $(-4)^2 - 5^3$

(i) -107 (ii) -110 (iii) -109 (iv) -112 (v)  $(-109)^2$

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6. The value of  $5^{-2} - (-5)^{-2}$

(i) -1 (ii) -2 (iii) 0 (iv) 3

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7. The value of  $\left(\frac{4}{3}\right)^3 - \left(\frac{1}{3}\right)^2$

(i)  $\frac{61}{25}$  (ii)  $\frac{59}{27}$  (iii)  $\frac{7}{3}$  (iv)  $\left(\frac{61}{27}\right)^2$  (v)  $\frac{61}{27}$

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8. The value of  $\left(\frac{-4}{3}\right)^{-2} - \left(\frac{2}{3}\right)^{-3}$

(i)  $\left(\frac{-45}{14}\right)$  (ii)  $\left(\frac{-45}{16}\right)$  (iii)  $\left(\frac{-45}{16}\right)^2$  (iv)  $\left(\frac{-43}{16}\right)$  (v)  $\left(\frac{-47}{16}\right)$

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9. The value of  $4^3 \times 4^3$

(i)  $4096^2$  (ii) 4098 (iii) 4095 (iv) 4096 (v) 4093

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10. The value of  $(-2)^{-3} \times (-5)^{-3}$

(i)  $1000^{-1}$  (ii)  $998^{-1}$  (iii)  $1002^{-1}$  (iv)  $1000^{-2}$  (v)  $1001^{-1}$

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11. The value of  $\left(\frac{-1}{2}\right)^3 \times \left(\frac{-3}{2}\right)^3$

(i)  $\frac{27}{62}$  (ii)  $\frac{29}{64}$  (iii)  $\frac{25}{64}$  (iv)  $\frac{27}{64}$  (v)  $\left(\frac{27}{64}\right)^2$

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12. The value of  $\left(\frac{-5}{3}\right)^{-3} \times \left(\frac{-2}{3}\right)^{-3}$

(i)  $\frac{731}{1000}$  (ii)  $\frac{727}{1000}$  (iii)  $\left(\frac{729}{1000}\right)^2$  (iv)  $\frac{729}{1000}$  (v)  $\frac{729}{998}$

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13. The value of  $(-4)^2 \div 4^3$

(i)  $2^{-1}$  (ii)  $6^{-1}$  (iii)  $4^{-1}$  (iv)  $4^{-2}$  (v)  $5^{-1}$

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14. The value of  $(-5)^{-2} \div 5^{-3}$

(i) 4 (ii)  $5^2$  (iii) 5 (iv) 7 (v) 2

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15. The value of  $\left(\frac{2}{3}\right)^3 \div \left(\frac{-5}{3}\right)^3$

(i)  $\left(\frac{-2}{25}\right)$  (ii)  $\left(\frac{-8}{125}\right)^2$  (iii)  $\left(\frac{-8}{125}\right)$  (iv)  $\left(\frac{-8}{123}\right)$  (v)  $\left(\frac{-6}{125}\right)$

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16. The value of  $\left(\frac{-5}{2}\right)^{-3} \div \left(\frac{1}{2}\right)^{-3}$

(i)  $(\frac{-3}{125})$  (ii)  $(\frac{-1}{125})$  (iii)  $(\frac{-1}{123})$  (iv)  $(\frac{-1}{125})^2$  (v)  $\frac{1}{125}$

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17. Find the square root of 25

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

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18. Find the cube root of -8

(i) -1 (ii) -5 (iii) -3 (iv) 0 (v) -2

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19. Find the 4th root of 256

(i) 2 (ii) 5 (iii) 4 (iv) 3 (v) 6

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20. Find the 5th root of -1024

(i) -4 (ii) -2 (iii) -3 (iv) -5 (v) -6

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21. Find the 6th root of 729

(i) 0 (ii) 3 (iii) 4 (iv) 2 (v) 5

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22. Find the square root of  $\frac{16}{25}$

(i)  $\frac{6}{5}$  (ii)  $\frac{4}{5}$  (iii)  $\frac{2}{5}$  (iv)  $\frac{4}{3}$  (v)  $\frac{4}{7}$

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23. Find the cube root of  $\frac{8}{125}$

(i)  $\frac{2}{7}$  (ii)  $\frac{4}{5}$  (iii)  $\frac{2}{3}$  (iv) 0 (v)  $\frac{2}{5}$

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24. Find the 4th root of  $\frac{16}{625}$

(i)  $\frac{4}{5}$  (ii)  $\frac{2}{7}$  (iii)  $\frac{2}{5}$  (iv)  $\frac{2}{3}$  (v) 0

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25. Find the 5th root of  $(\frac{-1}{32})$

- (i)  $(\frac{-1}{4})$  (ii)  $(\frac{-1}{2})$  (iii)  $\frac{1}{2}$  (iv)  $(\frac{-3}{2})$  (v)  $-1$
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26. Find the 6th root of  $\frac{64}{729}$

- (i)  $\frac{2}{3}$  (ii)  $\frac{4}{3}$  (iii)  $2$  (iv)  $0$  (v)  $\frac{2}{5}$
- 

$$\left(\frac{5}{3}\right)$$

27. Find the value of  $8$

- (i)  $32$  (ii)  $33$  (iii)  $31$  (iv)  $30$  (v)  $35$
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$$\left(\frac{3}{2}\right)$$

28. Find the value of  $4$

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

29. Find the value of  $27$

- (i)  $\frac{1}{79}$  (ii)  $\frac{1}{27}$  (iii)  $(\frac{-1}{81})$  (iv)  $\frac{1}{83}$  (v)  $\frac{1}{81}$
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30. Find the value of  $\left(\frac{-3}{5}\right)^{-2}$

- (i)  $\frac{25}{11}$  (ii)  $\frac{23}{9}$  (iii)  $3$  (iv)  $\frac{25}{7}$  (v)  $\frac{25}{9}$
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## Assignment Key

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