

EduSahara™ Learning Center Assignment**Grade : Class IX, ICSE****Chapter : Logarithms****Name : Concepts**

1. $\log_4 8 =$

(i) 0.5 (ii) 9.5 (iii) 2.5 (iv) 1.5 (v) 3.5

2. $\log_{1296} 216 =$

(i) 0.75 (ii) 8.75 (iii) 2.75 (iv) 1.75 (v) 7.75

3. $\log_{343} 49 =$

(i) 7.6667 (ii) 2.6667 (iii) 1.6667 (iv) 0.6667 (v) 8.6667

4. $\log_{36} 216 =$

(i) 0.5 (ii) 3.5 (iii) 9.5 (iv) 2.5 (v) 1.5

5. $\log_{16} 256 =$

(i) 3 (ii) 2 (iii) 0 (iv) 4 (v) 1

6. $\log_{343} 49 =$

(i) 0.6667 (ii) 1.6667 (iii) 8.6667 (iv) 7.6667 (v) 2.6667

7. $\log_{1000} 100 =$

(i) 7.6667 (ii) 1.6667 (iii) 2.6667 (iv) 0.6667 (v) 8.6667

8. $\log_{2401} 343 =$

(i) 8.75 (ii) 0.75 (iii) 7.75 (iv) 1.75 (v) 2.75

9. $\log_{625} 125 =$

(i) 0.75 (ii) 7.75 (iii) 8.75 (iv) 2.75 (v) 1.75

10. $\log_{1000} 10000 =$

- (i) 1.3333 (ii) 9.3333 (iii) 0.3333 (iv) 2.3333 (v) 3.3333
-

11. $\log_{81} 243 =$

- (i) 2.25 (ii) 3.25 (iii) 0.25 (iv) 9.25 (v) 1.25
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12. $\log_{10000} 1000 =$

- (i) 0.75 (ii) 7.75 (iii) 1.75 (iv) 8.75 (v) 2.75
-

13. The base of $\log_2 38$ is

- (i) 4 (ii) 38 (iii) 1 (iv) -1 (v) 2
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14. The base of $\log_5 \frac{3}{5}$ is

- (i) 8 (ii) 5 (iii) 3 (iv) $\frac{3}{5}$ (v) 4
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15. The base of $\log_{9.00} 39.0000$ is

- (i) 11 (ii) 8 (iii) 39 (iv) 9 (v) 7
-

16. The base of $\log_9 31^5$ is

- (i) 11 (ii) 31^5 (iii) 8 (iv) 6 (v) 9
-

17. The base of $\log_{\frac{1}{7}} 40$ is

- (i) $(\frac{-1}{7})$ (ii) $\frac{3}{7}$ (iii) $\frac{1}{7}$ (iv) 40 (v) $\frac{1}{5}$
-

18. The base of $\log_{\frac{2}{3}} \frac{13}{30}$ is

- (i) $(\frac{2}{3})^{-1}$ (ii) 2 (iii) $\frac{4}{3}$ (iv) $\frac{13}{30}$ (v) $\frac{2}{3}$
-

19. The base of $\log_{\frac{5}{7}} 27^{10}$ is

- (i) $\frac{5}{7}$ (ii) 1 (iii) 27^{10} (iv) $\frac{3}{7}$
-

20. The logarithmic notation of $9^4 = 6561$ is

(i) $\log_6 6558 = 4$

(ii) $\log_9 6561^2 = 4$

(iii) $\log_9 6561 = 4$

(iv) $\log_9 6564 = 4$

(v) $\log_9 6560 = 4$

21. The base exponent form of $\log_6 1296 = 4$ is

(i) $6^3 = 1296$ (ii) $6^4 = 1296$ (iii) $4^6 = 1296$

(iv) $9^4 = 1296$ (v) $6^5 = 1296$

22. $\log_{9^{18}} 9^3 =$

- (i) 8.1667 (ii) 0.1667 (iii) 1.1667 (iv) 2.1667 (v) 7.1667
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Assignment Key

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