

LESSON
7.5**Practice B***For use with pages 501–507***Match the expression with the logarithm that has the same value.**

1. $\log \sqrt{2} + \log \sqrt{8}$

2. $\log 4 - \log 10$

3. $2 \log 4 - \log 2$

4. $-3 \log \frac{1}{3}$

A. $\log \frac{2}{5}$

B. $\log 27$

C. $\log 4$

D. $\log 8$

Use $\log 4 = 0.602$ and $\log 7 = 0.845$ to evaluate the logarithm.

5. $\log 28$

6. $\log \frac{7}{4}$

7. $\log 16$

8. $\log 49$

9. $\log \frac{1}{4}$

10. $\log \frac{49}{64}$

Expand the expression.

11. $\log_3 3x$

12. $\log \frac{2x}{5}$

13. $\log_7 x^2y$

14. $\log_2 \frac{x^2}{4}$

15. $\ln \sqrt[3]{xy}$

16. $\log 5 \sqrt[3]{x}$

17. $\ln \frac{1}{2x^2}$

18. $\log_6 \frac{2x^2}{3}$

19. $\log_6 \frac{xy^2}{\sqrt{x}}$

Condense the expression.

20. $\log_3 4 + \log_3 2 + \log_3 2$

21. $\log 4 + 3 \log x + \log y$

22. $\log 3 + \frac{1}{2} \log x - \log 5$

23. $2 \ln x - \ln 3 + \ln 6$

24. $3 \log x + \log 4 - \log x - \log 6$

25. $3 \ln(x + 1) - 2 \ln y + \ln y + \ln 2$

Use the change-of-base formula to evaluate the logarithm.**Round your result to three decimal places.**

26. $\log_7 12$

27. $\log_4 112$

28. $\log_5 1.25$

29. $\log_{2.2} 22$

30. $\log_{4.2} 18.1$

31. $\log_{3.3} 0.0005$

In Exercises 32–34, use the following information.

Henderson-Hasselbalch Formula The pH of a patient's blood can be calculated using the Henderson-Hasselbalch Formula, $\text{pH} = 6.1 + \log \frac{B}{C}$, where B is the concentration of bicarbonate and C is the concentration of carbonic acid. The normal pH of blood is approximately 7.4.

32. Expand the right side of the formula.**33.** Find the pH of blood that has bicarbonate concentration of 38 and carbonic acid concentration of 2.0?**34.** Is the pH in Exercise 33 above normal or below normal?

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