

**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.  $\log_{5.3} 0.0005$

**In Exercises 32–34, use the following information.**

**Henderson-Hasselbach Formula** The pH of a patient's blood can be calculated using the Henderson-Hasselbach 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?

# Mcdougal Algebra 1 Review Games Activities

**SA Adler**



## **Mcdougal Algebra 1 Review Games Activities:**

## **Mcdougal Algebra 1 Review Games Activities** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Mcdougal Algebra 1 Review Games Activities**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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