



Name _____ Class _____ Date _____

AFTER THIS WORKSHEET YOU CAN

- ✓ Evaluate logarithms.
- ✓ Understand a log as the inverse of an exponent.
- ✓ Use special log values.
- ✓ Interpret log notation.



Section A • Concept Check

• BEGINNER

$4 \times 1 = 4$

1 $\log_2(32) = ?$

- ☐ A. 5 ☐ B. 4 ☐ C. 6 ☐ D. 16

2 $\log_{10}(10000) = ?$

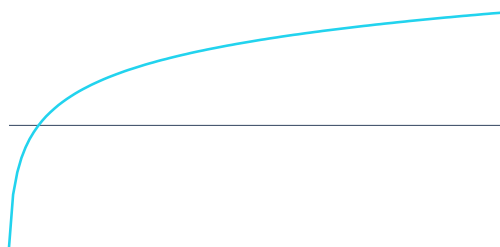
- ☐ A. 4 ☐ B. 3 ☐ C. 5 ☐ D. 1000

3 $\log_5(25) = ?$

- ☐ A. 2 ☐ B. 5 ☐ C. 25 ☐ D. 1

4 $\log_3(27) = ?$

- ☐ A. 3 ☐ B. 9 ☐ C. 27 ☐ D. 2

 $y = \log_2(x)$: the inverse of 2^n 

Section B • Problem Solving

• INTERMEDIATE

$2 + 3 \times 3 = 11$

5 A logarithm answers: to what _____ must the base be raised?

6 $\log_2(32) = \underline{\hspace{2cm}}$

7 Evaluate $\log_2(32)$.

8 Evaluate $\log_{10}(10000)$.

9 Evaluate $\log_5(25)$.



Section C • Challenge

• CHALLENGE

5

10 Evaluate $\log_3(27)$.

Reflection — the most useful thing I learned: _____

8< ANSWER KEY — FOLD OR CUT BEFORE HANDING OUT

1-A 2-A 3-A 4-A | 5 power 6 5 7 = 5 8 = 4 9 = 2 | 10 = 3

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