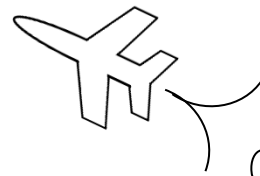


MAth on the Fly!



NAME: _____ DATE: _____

Logarithms

Find the value of each logarithm.

1. $\log_3(81)$

2. $\log_4(64)$

3. $\log_6(6^{10})$

4. $\log_7(49)$

5. $\log(1000)$

6. $\log_5(625)$

7. $\log_9(9)$

8. $\log_8(1)$

9. $\log_2(32)$

Find the value of x in each equation below.

10. $\log_4(x) = 4$

11. $\log(10000) = x$

12. $\log_x(512) = 3$

13. $\log_7(x) = -2$

14. $\log_3(243) = x$

15. $\log_x(1024) = 10$

16. $\log_x(29) = 1$

17. $\log_{36}(x) = \frac{1}{2}$

SOLUTIONS

1. 4

2. 3

3. 10

4. 2

5. 3

6. 4

7. 1

8. 0

9. 5

10. $x = 256$

11. $x = 4$

12. $x = 8$

13. $x = \frac{1}{49}$

14. $x = 5$

15. $x = 2$

16. $x = 29$

17. $x = 6$