

Logarithms — Both directions

Name: _____

Date: _____

Work out each logarithm, or find the missing number.

1 $\log_5 125 = \underline{\hspace{2cm}}$

2 $\log_3 \frac{1}{9} = \underline{\hspace{2cm}}$

3 $\log_2 256 = \underline{\hspace{2cm}}$

4 $\log_3 729 = \underline{\hspace{2cm}}$

5 $\log_4 \underline{\hspace{2cm}} = 2$

6 $\log_{10} 1000 = \underline{\hspace{2cm}}$

7 $\log_9 \underline{\hspace{2cm}} = 2$

8 $\log_2 \underline{\hspace{2cm}} = 8$

9 $\log_3 \underline{\hspace{2cm}} = 2$

10 $\log_5 \underline{\hspace{2cm}} = 2$



Logarithms · Both directions — Answer key

1. $\log_5 125 = 3$

2. $\log_3 1/9 = -2$

3. $\log_2 256 = 8$

5. $\log_4 16 = 2$

6. $\log_{10} 1000 = 3$

7. $\log_9 81 = 2$

9. $\log_3 9 = 2$

10. $\log_5 25 = 2$

4. $\log_3 729 = 6$

8. $\log_2 256 = 8$

