



## Logarithms - Meaning, Words to Equation as Question Mark (Decimals)

1

Which logarithm equation answers this?

What number would you raise 10 by to result in 257?

<sup>A</sup> $\log_{?} 10 = 257$	<sup>B</sup> $\log_{257} ? = 10$
<sup>C</sup> $\log_{?} 257 = 10$	<sup>D</sup> $\log_{10} 257 = ?$

2

Which logarithm equation answers this?

What number would you raise 4 by to result in 285?

<sup>A</sup> $\log_4 285 = ?$	<sup>B</sup> $\log_{285} 4 = ?$
<sup>C</sup> $\log_{285} ? = 4$	

3

Which logarithm equation answers this?

What number would you raise 8 by to result in 74?

<sup>A</sup> $\log_{74} ? = 8$	<sup>B</sup> $\log_8 74 = ?$
<sup>C</sup> $\log_{?} 74 = 8$	<sup>D</sup> $\log_{74} 8 = ?$

4

Which logarithm equation answers this?

What number would you raise 5 by to result in 312?

<sup>A</sup> $\log_{?} 312 = 5$	<sup>B</sup> $\log_{312} 5 = ?$
<sup>C</sup> $\log_{?} 5 = 312$	<sup>D</sup> $\log_5 312 = ?$

5

Which logarithm equation answers this?

What number would you raise 7 by to result in 75?

<sup>A</sup> $\log_{?} 75 = 7$	<sup>B</sup> $\log_{75} 7 = ?$
<sup>C</sup> $\log_{?} 7 = 75$	<sup>D</sup> $\log_7 75 = ?$
<sup>E</sup> $\log_{75} ? = 7$	

6

Which logarithm equation answers this?

What number would you raise 9 by to result in 287?

<sup>A</sup> $\log_{287} ? = 9$	<sup>B</sup> $\log_9 287 = ?$
<sup>C</sup> $\log_{?} 9 = 287$	

7

Which logarithm equation answers this?

What number would you raise 9 by to result in 82?

<sup>A</sup> $\log_{?} 9 = 82$	<sup>B</sup> $\log_{?} 82 = 9$
<sup>C</sup> $\log_9 82 = ?$	<sup>D</sup> $\log_{82} ? = 9$

8

Which logarithm equation answers this?

What number would you raise 7 by to result in 257?

<sup>A</sup> $\log_7 257 = ?$	<sup>B</sup> $\log_{257} 7 = ?$
<sup>C</sup> $\log_{?} 7 = 257$	