

Examples & Questions Examples 1

Q: How is solving $2^x = 8$ similar to solving 2x = 8? Different?

Q: You can calculate the value of x in $2^x = 8$ without rewriting the function as $\log_2 8 = x$. When might it be necessary to use this notation?

Examples 2

Q: Why might you find it necessary to convert from one representation of the relationship in an exponential or logarithmic equation to the other?

Q: What are the exponential and logarithmic equations that show how 2, 4, and 25 are related?

Examples 3

Q: Must all parts of a logarithmic expression be positive?

Examples 4

Q: Why can the exponential form of the expression be used to check your answers?

Examples 5

Q: How is solving exponential and logarithmic equations similar to solving liner equations? How is it different?

Examples 6

Q: How does converting the form of the equation help to find the magnitude of the earthquake?

Practice and Problem Solving

Complete MathXL for School: Practice and Problem Solving (online) Complete MathXL for School: Enrichment (online)

Challenge: # 13, 15, 17, 18, 57 – key will be posted in Power School Learning.

Lesson Quiz 6.3/Notes