Name _____ Class _____ Date _____

6C: Reading/Writing Math Symbols

For use after Lesson 6-3

Study Skill When you write symbols in your notes that may be easily confused, make sure you write them clearly so you will not confuse yourself when you review your notes.

A single mathematical expression, such as -1, may have several meanings that are slightly different in various contexts. Answer the following questions about the various meanings of the expression -1.

1. The basic meaning of -1 in the expression $7 - 1$ is to _____ the number one from seven.

2. In another meaning, -1 is the additive _____ of 1.

3. A number and its additive inverse add to a value of _____.

4. When -1 is used as an exponent on an integer, such as 8^{-1}, it denotes the multiplicative _____ of 8, or the fraction _____.

5. The product of a number and its multiplicative inverse is _____.

6. When -1 is used as an exponent on a matrix, such as A^{-1}, then the exponent means the multiplicative _____ of the matrix A.

7. The product of the two matrices, A and A^{-1}, is I, which is the _____ matrix.

Later on you will see how -1 is also used as an exponent to mean the inverse of a function and also to mean the inverse of a trigonometric function. Watch for these uses, and compare their meanings to the ones you have explored here.

All rights reserved.

© Pearson Education, Inc., publishing as Pearson Prentice Hall.