Unit 7, Lesson 8: Writing and Graphing Inequalities

1. At the book sale, all books cost less than \$5.

NAME

- a. What is the most expensive a book could be?
- b. Write an inequality to represent costs of books at the sale.
- c. Draw a number line to represent the inequality. O
- 2. Kiran started his homework *before* 7:00 p.m. and finished his homework *after* 8:00 p.m. Let *h* represent the number of hours Kiran worked on his homework.

Decide if each statement it is definitely true, definitely not true, or possibly true. Explain your reasoning.

a.h>1 yes 7-8 is one hour definitely true b.h>2 yes possibly, we don't know exactly when he started and stopped c.h<1 no definitely not true if he started before 7 and worked until after 8 it couldn't be less than one worked until after 8 it couldn't be less than one hours d.h<2 yes possible, could have worked more than hours

4.99

645

70-20-2=4=1

GRADE 6 MATHEMATICS

- 3. Consider a rectangular prism with length 4 and width and height d.
 - a. Find an expression for the volume of the prism in terms of d. d = 4 d = 4 d = 4 d = 4 d = 4 d = 4 d = 4 d = 2, and when $d = \frac{1}{2}$. $d = \frac{1}{2}$ d = 2 d = 2 $d = \frac{1}{2}$.

4.4 = 16 un 3

Unit 7: Rational Numbers Lesson 8: Writing and Graphing Inequalities

DATE

PERIOD

(from Unit 6, Lesson 14)

NAME

4. Match the mathematical statements with the statements written in English. All of these statements are true.

A.
$$|-12| > -15$$
1. The number -15 is further away from 0 than the number -12 on the
number line.B. $-15 < -12$ 5C. $|-15| > |-12|$ 7D. $|-12| = 12$ 2D. $|-12| = 12$ 23. The distance between -12 and 0 on the number line is greater than -15.E. $12 > -12$ 4. The numbers 12 and -12 are the same distance away from 0 on the
number line.F. $|12| = |-12|$ 45. The number -15 is less than the number -12.

6. The number 12 is greater than the number -12. E

(from Unit 7, Lesson 7)

5. Here are five sums. Use the distributive property to write each sum as a product with two factors. a. 2a + 7a. a(2+7)b. 5z - 10c. $c - 2c^2$ (from Unit 6, Lesson.11) b. Here are five sums. Use the distributive property to write each sum as a product with two factors. (d) r + r + r + r(e) $2x - \frac{1}{2}$ (from Unit 6, Lesson.11) (from Unit 6, Lesson.11) (here are five sums. Use the distributive property to write each sum as a product with two factors. (from Unit 6, Lesson.11) (here are five sums. Use the distributive property to write each sum as a product with two factors. (here are five sums. Use the distributive property to write each sum as a product with two factors. (here are five sums. Use the distributive property to write each sum as a product with two factors. (here are five sums. Use the distributive property to write each sum as a product with two factors. (here are five sums. Use the distributive property to write each sum as a product with two factors. (here are five sums. Use the distributive property to write each sum as a product with two factors. (here are five sums. Use the distributive property to write each sum as a product with two factors. (here are five sums. Use the distributive property to write each sum as a product with two factors. (here are five sums. Use the distributive property to write each sum as a product with two factors. (here are five sums. Use the distributive property to write each sum as a product with two factors. (here are five sum are