

NAME

DATE

PERIOD

## Unit 6, Lesson 13: Reintroducing Inequalities

1. For each inequality, find two values for  $x$  that make the inequality true and two values that make it false.

a.  $x + 3 > 70$

b.  $x + 3 < 70$

c.  $-5x < 2$

d.  $5x < 2$

2. Here is an inequality:  $-3x > 18$ .

a. List some values for  $x$  that would make this inequality true.

b. How are the solutions to the inequality  $-3x \geq 18$  different from the solutions to  $-3x > 18$ ? Explain your reasoning.

3. Match each sentence with the inequality that could represent the situation.

A. Han got \$2 from Clare, but still has less than \$20.

1.  $x - 2 < 20$

B. Mai spent \$2 and has less than \$20.

2.  $2x < 20$

C. If Tyler had twice the amount of money he has, he would have less than \$20.

3.  $x + 2 < 20$

4.  $\frac{1}{2}x < 20$

D. If Priya had half the money she has, she would have less than \$20.

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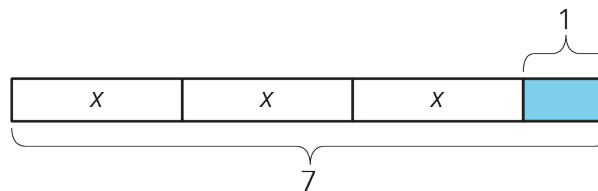
4. Here are the prices for cheese pizza at a certain pizzeria:

pizza size	price in dollars
small	11.60
medium	
large	16.25

- You had a coupon that made the price of a large pizza \$13.00. For what percent off was the coupon?
- Your friend purchased a medium pizza for \$10.31 with a 30% off coupon. What is the price of a medium pizza without a coupon?
- Your friend has a 15% off coupon and \$10. What is the largest pizza that your friend can afford, and how much money will be left over after the purchase?

(from Unit 4, Lesson 12)

5. Select **all** the stories that can be represented by the diagram.



- Andre studies 7 hours this week for end-of-year exams. He spends 1 hour on English and an equal number of hours each on math, science, and history.
- Lin spends \$3 on 7 markers and a \$1 pen.
- Diego spends \$1 on 7 stickers and 3 marbles.
- Noah shares 7 grapes with 3 friends. He eats 1 and gives each friend the same number of grapes.
- Elena spends \$7 on 3 notebooks and a \$1 pen.

(from Unit 6, Lesson 4)