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Unit 6, Lesson 13**Practice Problems**

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. $x + 2 < 20$

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

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

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

| pizza size | price in dollars |
|------------|------------------|
| small | 11.60 |

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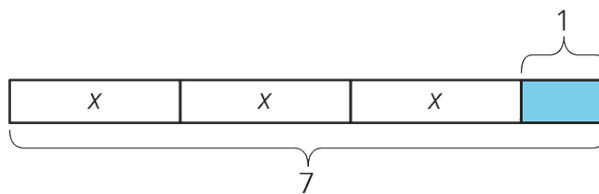
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| pizza size | price in dollars |
|------------|------------------|
| medium | |
| large | 16.25 |

- a. You had a coupon that made the price of a large pizza \$13.00. For what percent off was the coupon?
- b. 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?
- c. 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?

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



- A. 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.
- B. Lin spends \$3 on 7 markers and a \$1 pen.
- C. Diego spends \$1 on 7 stickers and 3 marbles.
- D. Noah shares 7 grapes with 3 friends. He eats 1 and gives each friend the same number of grapes.
- E. Elena spends \$7 on 3 notebooks and a \$1 pen.