### 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.
	1. $x+3>70$
	2. $x+3<70$
	3. $-5x<2$
	4. $5x<2$
2. Here is an inequality: $-3x>18$.
	1. List some values for $x$ that would make this inequality true.
	2. How are the solutions to the inequality $-3x\geq 18$ different from the solutions to $-3x>18$? Explain your reasoning.
3. Here are the prices for cheese pizza at a certain pizzeria:

| * pizza size
 | * price in dollars
 |
| --- | --- |
| * small
 | * 11.60
 |
| * medium
 |  |
| * large
 | * 16.25
 |

* 1. You had a coupon that made the price of a large pizza $13.00. For what percent off was the coupon?
	2. 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?
	3. 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.)
1. Select **all** the stories that can be represented by the diagram.
* 
	1. 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.
	2. Lin spends $3 on 7 markers and a $1 pen.
	3. Diego spends $1 on 7 stickers and 3 marbles.
	4. Noah shares 7 grapes with 3 friends. He eats 1 and gives each friend the same number of grapes.
	5. Elena spends $7 on 3 notebooks and a $1 pen.
* (From Unit 6, Lesson 4.)



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