"I Can Write an Inequality and Determine the Possible Solutions that Satisfy the Situation."

An Introduction to Writing Inequalities

List three numbers that would be in the solution set inequalities below.

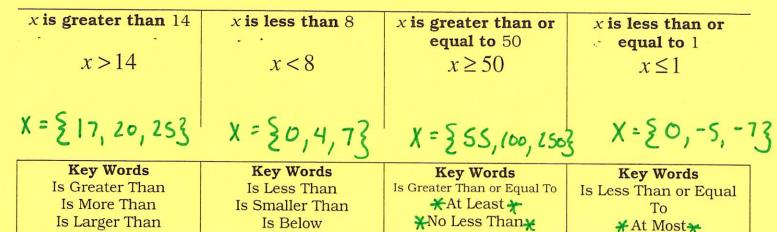
x is greater than 14					x is less than 8				x is greater than or							
9 unit			1	X 15 1655 CHAIL 6				equal to 50				x is less than or equal to 1				
x > 14					0											
x > 14					x < 8				$x \ge 50$				<i>x</i> ≤ 1			
				ı				1				-				
Key Words					Key Words				Key Words				Key Words			
Is Greater Than					Is Less Than				Is Greater Than or Equal To				Is Less Than or Equal			
Is More Than					Is Smaller Than				At Least				To			
Is Larger Than					Is Below				No Less Than				At Most			
Exceeds												Ì	No More Than			
								•								
Lo	Look at the situations below. Circle the numbers that are possible answers in each situation. Then															
write an inequality for each situation.																
A see																
1.	Jes	sica s	pent le	ss th	an \$5 at	t the ar	cade.									
		•			_		_	_								
1		2	3	4	5	6	7	8	9	10	11	12	13	14	15	
		•••														
	Ine	qualit	y:													
•	Cha		unat dat	4 1.	aat 0 ma				_							
۷.	2. Sherry must get at least 8 points to win the game.															
1		2	3	4	5	6	7	8	9	10	11	12	13	14	15	
		_		-	•	Ū	•	Ū	Ü	10		12	10		10	
	Ine	gualit	v:													
		1	<i>,</i>													
3.	Υοι	ı mus	t be old	ler th	an 10 to	o play i	n the ba	sketl	oall gan	ie.						
1		2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	Ine	qualit	y:													
4.	Bill	ly's m	om told	l him	to spen	d no m	ore than	12 r	ninutes	playin	g video	games	•			
		0	0	,	_	•	7	0	•	10		10	10	7.4	3 F	
1	•	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
		•														
Inequality:																

*No More Than *

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List three numbers that would be in the solution set inequalities below.



Look at the situations below. Circle the numbers that are possible answers in each situation. Then write an inequality for each situation.

1. Jessica spent less than \$5 at the arcade.

Exceeds

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Inequality: d 4 5

2. Sherry must get at least 8 points to win the game.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Inequality: 28

3. You must be older than 10 to play in the basketball game.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Inequality: **b** > 10

4. Billy's mom told him to spend no more than 12 minutes playing video games.