Expressions

	Simplify. Justify by indicating the property used at each step.		Evaluate.		
1.	-3+2(x-4)-5x	Justification:	2.	$-2(x^{2} + 1) + 6x$ for $x = 5$	

Equations

	Solve. Justify by indicating the property used at each step.						
3.	-9x + 18 = 23	Justifica	ation:	4.	$\frac{5}{4}y - 3 = -8$		Justification:
			Answer the qu	iestio	ns completely	7	
5.	$-2(5-x^2)=22$	$-2(5-x^2) = 22$ Is x = 4 a solution?		6.	$-\left(\frac{x}{5}-6\right)+1$	Is $x = -15$ a solution?	
	How do you know?						How do you know?
	In each case, a mistake has been made. Find and explain what the mistake was.						
7.	4+2(x-3)-5x=84+2x-3-5x=8	8	3. $4+2(x-3)$ 6(x-3)-3)-5x=5	x = 8	9.	4+2(x-3)-5x=84+2x-6-5x=8-5x=8

Inequalities

	Solve.	Label the number line and indicate the solution(s):	Is -7 a solution? Explain how you know.
10.	-x - 11 > -3	<	

Absolute Value

	Solve.		Solve and Graph the Solution
11.	-2 x+3 -5=-19	12.	$-2 x+3 \le -10$
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Application

	Answer the questions completely.
13.	Jennifer is creating a rectangular plot of grass in her backyard. She would like the length of the plot to be 3 feet less than the width. Draw a picture of the situation.
	Using the variable <i>w</i> for width, express the <i>perimeter</i> of the plot as an <i>inequality</i> if he would like the perimeter to be greater than 72 feet.
14.	Dan has \$400 in his account and he wants to rent a tractor to work on his field. The upfront cost is \$60 and \$40 for each day of rental. Create an equation to describe how many days he can rent the tractor.
	Transform your equation for the number of rental days Dan into an equivalent equation.
	How many days can Dan rent a tractor for his \$400?

Essential Question

Write a Big Idea response for the Essential Question. Include vocabulary terms you have learned. Your			
responses will be evaluated using the Big Ideas Scoring Guide.			
How can we represent real world situations in multiple ways?			