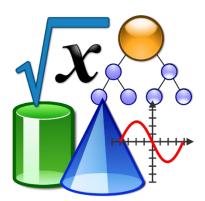
NPS Learning in Place Pre-algebra 6/7 and Math 8



Name:	School:	Teacher:	

April 27- May 15

Week 1	 Evaluating Expressions
Week 2	 Solving equations
Week 3	 Solving Inequalities

Week 1

Order of Operations and Evaluating Expressions

8.14a The student will evaluate an algebraic expression for given replacement values of the variables.

Expressions are simplified using the order of operations.

The order of operations is as follows:

- First, complete all operations within grouping symbols*. If there are grouping symbols within other grouping symbols, do the innermost operation first.
- Second, evaluate all exponential expressions.
- Third, multiply and/or divide in order from left to right.
- Fourth, add and/or subtract in order from left to right.

*Parentheses (), brackets [], braces {}, absolute value

(i.e., – 7), and the division bar (i.e.,) should be treated as grouping symbols.

Algebraic expressions are evaluated by substituting numbers for variables and applying the order of operations to simplify the resulting numeric expression.

Simplify
$$3x - 4(r + 3)^3$$
, when $x = 3$ and $r = -1$
 $3(3) - 4(-1 + 3)^3$
 $3(3) - 4(2)^3$
 $3(3) - 4(8)$
 $9 - 4(8)$
 $9 - 32$
 -23

Directions: Evaluate the expressions below. Show your work!

1) $\frac{16}{n}$ + 2 ³ - 10 when $n = 8$	2) $r^5 - 12 \div r$ when $r = 3$	3) b + 6 ÷ 4 when b = 1.5
4) $3r^2 - 17$ when $r = 6$	5) $27 - \frac{24}{b}$ when $b = 8$	6) $\frac{9}{10} \cdot y - \frac{3}{10}$ when $y = \frac{1}{2}$

8.14a The student will evaluate an algebraic expression for given replacement values of the variables.

Evaluating Expressions

*Parentheses (), brackets [], braces {}, absolute value (i.e., – 7), and the division bar (i.e.,) should be treated as grouping symbols.

$$\frac{2x^{3} - 18}{1 + s^{2} - 8} \text{ when } z = 5 \text{ and } s = 6$$

$$= \frac{2 \cdot 5^{3} - 18}{1 + 6^{2} - 8}$$

$$= \frac{2 \cdot 125 - 18}{36 - 7}$$

$$= \frac{250 - 13}{29}$$

$$= 8$$
Directions: Evaluate each expression.
$$1) \frac{9 \cdot 2}{4 + s^{2} - 1} \text{ when } x = 3$$

$$2) \frac{13y - 4}{18 - y^{2} + 1} \text{ when } y = 4$$

$$4) \text{ What is the value of } 4n(n + 2)^{2} \text{ when } x = 3$$

$$4) \text{ What is the value of } 4n(n + 2)^{2} \text{ when } y = 3, q = 17, \text{ and } r = 8?$$

$$A \cdot 2048$$

$$B \cdot 384$$

$$C \cdot 384$$

$$D \cdot 2048$$

$$B \cdot 334$$

$$C \cdot 384$$

$$D \cdot 2048$$

$$D \cdot 2048$$

$$B \cdot 324$$

$$C \cdot 384$$

$$D \cdot 2048$$

$$D \cdot 27$$

$$D \cdot$$

ERROR ANALYSIS

James evaluated the following algebraic expression.
2x-y
$\sqrt{5x} + 2y$ when $x = 5$ and $y = -2$
His work is shown here.
2x-y
$\overline{\sqrt{5x}+2y}$
2(5) - (-2)
$\frac{ 2(5) - (-2) }{\sqrt{5(5)} + 2(-2)}$
2(5)-2
$\frac{ 2(5)-2 }{\sqrt{5(5)}+2(-2)}$
10-2
$\frac{ 10-2 }{\sqrt{5(5)}+2(-2)}$
8
$\frac{ 8 }{\sqrt{5(5)}+2(-2)}$
$\frac{8}{\sqrt{5(5)}+2(-2)}$
8
$\frac{8}{\sqrt{25}+2(-2)}$
8
$\frac{8}{5+2(-2)}$
8
$\frac{8}{5+(-4)}$
$\frac{8}{-} = 8$
$\frac{-}{1} = 0$

Math Journal: James made a mistake while evaluating this expression. Identify his mistake and rework the problem to obtain the correct answer.

Name	Exit Ticket Date
	Jill needs to find the area of a triangle. If the base of the triangle is 4½ feet and the
	height is 8¼ feet, what is the area of the triangle? $\left(A = \frac{1}{2}bh\right)$ Show all work.
2.	Explain what is similar and what is different about the two expressions $3x^2$ and $(3x)^2$, when $x = \frac{1}{3}$.

Combining Like Terms Vocabulary

Terms- Quantities that you ADD to form an algebraic expression are called terms.

Like Terms- terms with the same variable raised to the same power You CAN add/subtract like terms.

You can COMBINE Like Terms **<u>COMBINE</u> means add, so use the addition rules

Unlike Terms- terms whose variables are not the same, or who have the same variable, but it's raised to a different power

You CANNOT add/subtract unlike terms.

Variable A symbol used to represent an unknown amount. The symbol is usually a letter of the alphabet.

Coefficient The number being multiplied by a variable. It is the number attached to the variable and is usually in front.

*Special note! A variable with no coefficient has an "INVISIBLE 1" attached to it! Constant A number that doesn't change. There is no variable attached to a constant.

Algebraic Expression An expression that contains variables

Expression	6a + 3	6a - 3	2x + 4 - 5z
Number of terms	2	2	3
Coefficient(s)	6	6	2, 5
Constant (s)	3	-3	4

Directions: Identify the number of terms, the coefficients, and the constant term of the expressions below.

1) 7p – 6pc + 3c - 2	2) 8 + 4ab - 5b
Number of terms: Coefficients: Constant terms:	Number of terms: Coefficients: Constant terms:
3) 0.2x - y + 8z	
Number of terms: Coefficients: Constant terms:	

To simplify by combining like terms:

1. Search for like terms (same variable raised to the same power; and constants with other constants).

2. Identify variable terms and constant terms.

3. Combine the like variable terms. *Remember that an "invisible 1" lurks in front of variables that appear to have no coefficient attached to them.

4. Continue with other like terms.

/ariable Expressions C ircle the variable terms Box the constant terms. 'Remember the signs	Combine the like variable terms:	Combine like constant terms:	Combine the like and variable terms: Final Answer
1) $4x + 5x + 7 + x - 2$	4x + 5x + 1 x	7 – 2	4x + 5x + 1x + 7 - 2
4x + 5x + 7 + x - 2	10x	5	10x + 5
2) 2n + 3 – 5n + 6			
3) -8 + 2d – 7 – 5d + 12			
4) 5b + 7 – 3b – 4			

Check your work: 2) -3n + 9 3) -3d -3 4) 3b +3

8.14b The student will simplify algebraic expressions in one variable. **Simplifying Algebraic Expressions** The Distributive Property Guide Notes DISTRIBUTIVE PROPERTY For any numbers a, b, and c, the product of a and (b + c) is: a(b+c) = ab + ac(b+c)a = ba + caFor any numbers a, b, and c, the product of a and (b - c) is: a(b-c) = ab - ac(b-c)a = ba - ca**a.** 4(n+5)4(n+5) = 4(n) + 4(5)**Distributive Property** =4n+20Multiply. **b.** 12(y-3)12(y-3) = 12(y) - 12(3) Distributive Property = 12y - 36Multiply. LIKE TERMS are terms that contain the same variables, with corresponding variables having the same power. SIMPLIFYING EXPRESSIONS: Distributive property is used to combine like terms by adding their coefficients. A simplified expression must not have grouping symbols and fractions are reduced to its lowest term. Directions: Use the Distributive Property to simplify the expressions. 2) 7(a+2)2) 6(b - 7) 3) -3(d - 11)4) -10(9 + b)5) 18(w + 5)6) 8(12 + a)7) **ERROR ANALYSIS** Describe and correct the error in rewriting the expression. 6(y+8) = 6y+8Check your work: 1) 7a + 14 2) 6b - 42 3) -3d + 33 4) -90 – 10b 5) 18w + 90 6) 96 + 8a 7)6y + 48

Simplifying Algebraic Expressions- Combining Like Terms

• Simplifying an algebraic expression means to write the expression as a more compact and equivalent expression. This usually involves combining like terms.

• Like terms are terms that have the same variables and exponents. The coefficients do not need to match (e.g., 12x and -5x; 45 and -523; 9y, -51y and 49y.)

• Like terms may be added or subtracted using the distributive and other properties.

For example:

2(x - 12) + 5x 2x - 12 + 5x 2x + 5x - 17x - 12

Directions: Simplify each expression.

1) -6k + 7k					2) 12r - 8 - 12
4) n – 10 + 9n – 3					4) -4x - 10x
5) -r - 10r					6) –2x + 11 + 6x
Check your answers: 1) k	2) 12r – 20	3) 10n – 13	4) -14x	5) -11r	6) 4x + 11

Simplifying Expressions – Combining Like Terms				
<u>Vocabulary Review:</u> Term: parts of an algebraic expression separated by an addition or				
subtraction sign Coefficient : the num	nerical factor of a term that contains a variable			
Constant : A term wi	thout a variable that contain the same variables			
	braic expression with one variable: Use the properties of e an equivalent expression that has no like terms or			
Example #1: Simpli	ify the expression: $7x + 3 + 9x + 15$			
7x + 3 + 9x + 15 = 7x + 9x + 3 + 15	Use Commutative Property to change the order of the terms			
= 16x + 18	Evaluate by combining like terms			
= 16x + 18	Final Answer			
Example #2: Simpli	ify the expression: 4(m + 3) + 2m			
4(m + 3) + 2m				
= 4m + 12 + 2m	Use Distributive Property to eliminate parentheses			
= 4m + 2m + 12	Use Commutative Property to re –order the terms			
= 6m + 12	Combine like terms to get final answer			
The Properties of O	perations can also be used to simplify expressions with more than one variable.			
Example #3: Simplify the expression: $(7x + y) + 15x (7x + y) + 15x$				
= (y + 7x) + 15x	Use Commutative Property to re –order the terms			
= y + (7x + 15X)	Use Associative Property to re-group			
= y + 22x	Combine like terms to get final answer			
Example #4: Simplify the Expression: 9(m + 3k) 9(m + 3k)				
=9 • m + 9 •3k	Use Distributive Property to eliminate parentheses			
= 9m + 27k	Evaluate to get final answer			

Directions: Simplify the expressions.			
1) 7h + 5g + 3h + 2h	2) 15g + (11 g + 7k)		
2) 4(2x + 5y) – 2y	4) 7- 3(9x + p)		
5) $-2(-3k+4) - 7$	6) $3n + 3(1 + 8n)$		
7) - 3(5 + 2x) - 7	8) -1 + 3(m + 4)		
Assessment Questions: Simplify the expressions given below.			

Simplify the expressions given below.

-3x + 2w + 5w - 4x - 3 + 9x	6s + 2s - 16 - 19s + 18 + 15s	$22x - 16x + \frac{1}{4} - 10x - \frac{5}{8} + 10x$

Apply the properties of real numbers to simplify the expressions given below.

Math Journal: How is *simplifying* an expression different from *evaluating* an expression? How are they alike?

Week 2

Focus: Solve and check multi-step equations with one variable

- The equal sign indicates that the two sides of the equation are equal.
- Performing the exact same operations on both sides of the equation (Addition, Subtraction, Multiplication, and Division Properties of Equality) maintains that equality.
 Don't forget to combine like terms first!
- When presented with a model of an equation (for example, algebra tiles), the solution can be found using the model, or the model can be used to create the equation.

Example 1: Solve 3w + 15 - 5 + 2w = 5 3w + 15 - 5 + 2w = 5 5w + 10 = 5 5w + 10 - 10 = 5 - 10 5w + 0 = -5 5w = -5 $\frac{5w}{5} = \frac{-5}{5}$ 1w = -1 **Check**: 3w + 15 - 5 + 2w = 5 3(-1) + 15 - 5 + 2(-1) = 5 3(-1) + 15 - 5 + 2(-1) = 5 12 - 5 - 2 = 5 7 - 2 = 55 = 5

Equation	Check	Equation	Check
2y + 2y + 6 + 10 = 18		3 - 2x + 4x + 6 = 9	
Equation	Check	Equation	Check
Equation	Check	Equation	Check
4 + 3h - h = 2 + 10		5x + 8x - 2 = 10	
4 + 3h - h = 2 + 10			
4 + 3h - h = 2 + 10			
4 + 3h - h = 2 + 10			
4 + 3h - h = 2 + 10			
4 + 3h - h = 2 + 10			
4 + 3h - h = 2 + 10			
4 + 3h - h = 2 + 10			

Equation	Check	Equation	Check
4y - 8 + 6y = -4		8y + 2y - 6 = 10	
Equation	Check	Equation	Check
-15 + 3x - 7x = -43		-x + 8 - 9x = 11	
Equation	Check	Equation	Check
6x - 5 + 7x = 34		2x + 5x + 6.3 = -14.4	
	Check		Check
Equation	Check	Equation	Check
	Check		Check
Equation	Check	Equation	Check
Equation	Check	Equation	Check
Equation	Check	Equation	Check
Equation	Check	Equation	Check
Equation	Check	Equation	Check
Equation	Check	Equation	Check
Equation	Check	Equation	Check
Equation	Check	Equation	Check
Equation	Check	Equation	Check

	D	on't C all M e A fter M idr	night
1 st D	Distributive	e Property	
2 nd C	Combine L	ike Terms	
3 rd M a. A b. M	a. Addit	ble to One side ion/Subtraction plication/Division	
3 rd *Exception		$\frac{x-8}{4}+5=$	7
		$\begin{array}{r} x - 8 \\ 4 \\ + 5 \\ - 8 \\$	Check. x - 8 + 5 = 7 4 + 5 = 7 4 + 5 = 7 4 + 5 = 7 4 + 5 = 7 2 + 5 = 7 2 + 5 = 7 7 = 7

Equation	Check	Equation	Check
8x - 27 - 6x - 10 = 15		4(x+7) - 8 = -12	

Equation	Check	Equation	Check
-13 = 5(1 + 4m) - 2m		37 = -3 + 5(x + 6)	
Equation	Check	Equation	Check
3x + 2(x - 5) = 35		0.25(3 + a) = 0.5	
Faultion	Check	Equation	Check
Equation 3(y-1) = -2(y+3) + 13		5(y+3)	
[30, 1] = 20 + 31 + 13		$\frac{5(y+3)}{9} = 40$	

Focus: Verbal translations of expressions and equations

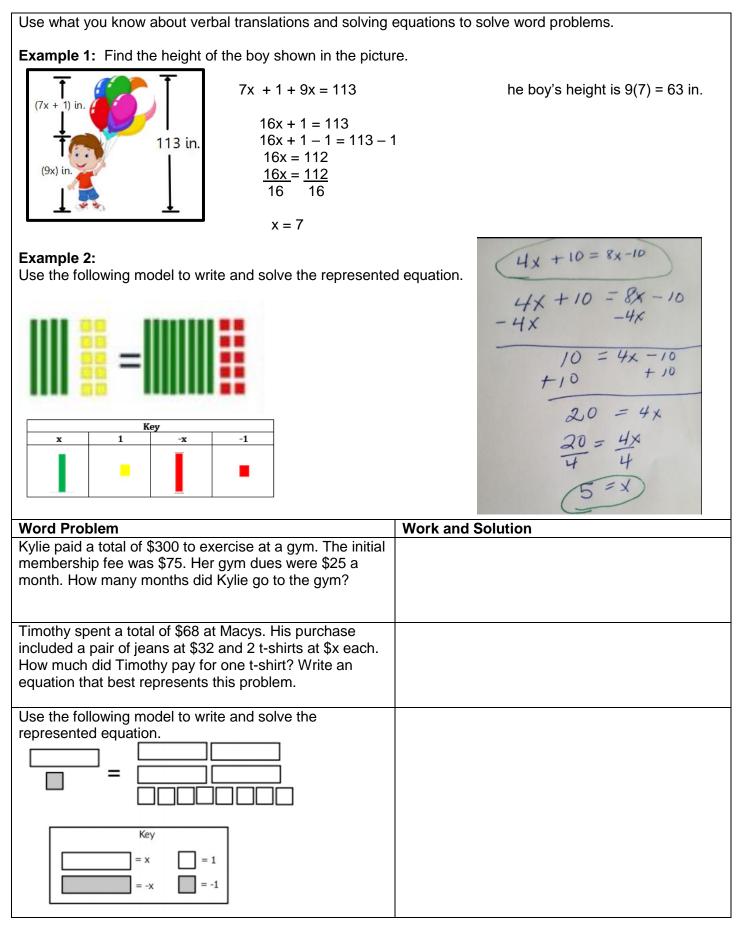
The table below lists some key words and phrases that are used to describe common mathematical operations. To write algebraic expressions and equations, assign a variable to represent the unknown number. In the table below, the letter "x" is used to represent the unknown. In translation problems, the words sum, total, difference, product and quotient imply at least two parts – use parentheses when a sum or difference is multiplied. For example, the phrase "the sum of three times a number and five" translates to "3x + 5," while the phrase "three times the sum of a number and five" translates to "3(x + 5)."

OPERATION	Key Word/Phrase	Example	TRANSLATION
Addition (+)	plus	A number plus three	x+3
	more than	Ten more than a number	x + 10
	the sum of	The sum of a number and five	x + 5
	the total of	The total of six and some number	6 + X
	Increased by	A number increased by two	x + 2
	added to	Eleven added to a number	x + 11
Subtraction (-)	minus	A number minus seven	x-7
	less than	Four less than a number	x-4
	the difference of	The difference of a number and three	x-3
	less	Nine less a number	9-x
	decreased by	A number decreased by twelve	x-12
	subtracted from	Six subtracted from a number	x-6
Multiplication (x)	times	Eight times a number	8x
	the product of	The product of fourteen and a number	14x
	twice; double	Twice a number; double a number	2x
	multiplied by	A number multiplied by negative six	-6x
	of	Three fourths of a number	$\frac{3}{4}x$
Division (÷)	the quotient of	The quotient of a number and seven	<u>x</u> 7
	divided by	Ten divided by a number	<u>10</u> x
	the ratio of	The ratio of a number to fifteen	x 15
Powers (x ⁿ)	the square of; squared	The square of a number; a number squared	x²
	the cube of; cubed	The cube of a number; a number cubed	x²
Equals (=)	equais	Seven less than a number equals ten.	x - 7 - 10
	ls	Three times a number is negative six.	3x = -6
	is the same as	Eight is the same as twice a number.	8 - 2x
	yleids	Twelve added to a number yields five.	x + 12 = 5
	amounts to	Nine less a number amounts to twenty.	9-x-20

Verbal	Algebraic	Verbal	Algebraic
Twice the difference between 6 times h and 3 is 30.		Seven is the sum of 5 times z and 4 divided by two.	

Algebraic	Verbal	Algebraic	Verbal
$14 = 4 + \frac{h}{3}$		5(x + 8) = 10	
Verbal Three-fourths of x added	Algebraic	Verbal The product of 4 and the	Algebraic
to twice of x is 11		difference of x and 3 is 54.	
Algebraic	Verbal	Algebraic	Verbal
$\frac{4-k}{-3} = 45$		5h - 10 = 3h	
Verbal	Algebraic	Verbal	Algebraic
Nine less than a number is the product of four and twelve.		The sum of 8 and 5 is equal to the difference of number and 7.	
Algebraic	Verbal	Algebraic	Verbal
$\frac{1}{8}y + 4$		n + (n +1) = 35	
Verbal	Algebraic	Verbal	Algebraic
Three times the x difference of a number and 12		Two fifths of a number is the same as seven.	

Focus: Multistep Equations and Word Problems



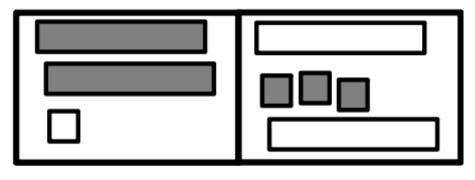
TYING SOL 8.17 ALL TOGETHER!

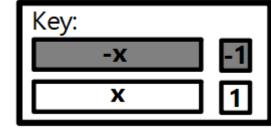
1). What value of <i>x</i> ma	akes this equation true?	$x-7=\frac{3}{4}x-5$	
A. <i>x</i> = -48	B. x = 1	C. $x = \frac{1}{2}$	D. <i>x</i> = 8
2). What value of <i>x</i> m	akes this equation true?	$\frac{2x+3}{4} = -x+3$	
A. $\frac{3}{2}$	B. $-\frac{3}{2}$	C. $\frac{9}{2}$	C. $-\frac{9}{2}$

3). The length and width of the rectangle are noted in the image. If the perimeter of the rectangle is 82 square units, find the length and width of the rectangle.

	2x	+ 8		
4). What value of	g makes this equatio	n true?	$\frac{2}{3}(6g-3) = 3(g+7)$	1)
A. 1	B. 4	C. 5	5 D.	6
5). Solve.	3m = 5m - 10			
A5	B. $-\frac{5}{4}$	C.	5	5
A3	\mathbf{D} . $-\frac{1}{4}$	С.		J

6). Find the value of *x* that makes the equation true.





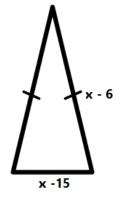
A. x = 1 B. x = -1 C. x = 2 D. x = -2

- 7). Five times sum of a number, *x*, and nine is ten. What is the number?
 - A. -41 B. 45 C. 11 D. -7

8). George has (-2x + 5) dollars. Evan has (6x + 77) dollars. George and Evan have the same amount of money. How much do they each have?

9). An isosceles triangle has a perimeter of 30 units. What is the value of x?

A. -23 B. 19 C. 25.5 D. 22.5



10). What is the solution to the equation?	1.5x + 12 = 0.75(4x - 12)

A. 14 B. 4.6 C. -42 D. 22

8.18 Solving Multi-Step Inequalities

To solve an inequality use the following steps:

*1 Eliminate all fractions by multiplying all terms by the

least common denominator of all fractions

*2 Distribute

- *3 Combine like terms
- *4 Move variable to one side using inverse operations
- *5 Add or subtract on both sides
- *6 Divide or multiply on both sides

*7 If the coefficient is negative---FLIP the inequality symbol

---AND----

If the variable is on the right---FLIP the inequality symbol and move to the left

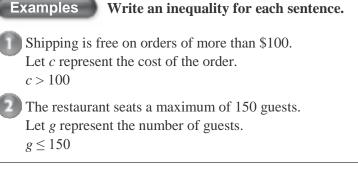
Graphing Symbols and Phrases

	Frefix in = not	qual, there is no Root word =	
Symbol	Meaning	Number Line	Example
≤	Less than or equal to "At most" "Is no more than"	•••	X ≤ 5 2X ≤ 15
<	Less than "Is less than" "Is fewer than"		X < 5 2x < 15
≥	Greater than or equal to "At least" "Is no less than"	•••	X≥5 2x≥5
>	Greater than "Is greater than" "Is more than"	•►	X > 5 2x > 5

Reteach

Graph Inequalities

An **inequality** is a mathematical sentence that contains $\langle \text{ or } \rangle$. When used to compare a variable and a number, inequalities can describe a range of values. Some inequalities use the symbols \leq or \geq . The symbols \leq is read *is less than or equal to*. The symbol \geq is read *is greater than or equal to*.



Inequalities can be graphed on a number line. An open or closed dot is used to indicate where they begin. An arrow to the left or to the right is used to show that they continue in the indicated direction. An open circle is used with inequalities having < or >. A closed circle is used with inequalities having $\leq \text{ or } \geq$.

Examples Graph each inequality on a number line.

$$d \leq -2$$

Place a closed dot at -2. Then draw a line and an arrow to the left.

$$d > -2$$

Place an open dot at -2. Then draw a line and an arrow to the right.

Exercises

Write an inequality for each sentence.

- 1. Our delivery time is guaranteed to be less than 30 minutes.
- 2. Your speed must be at least 45 miles per hour on the highway.

Graph each inequality on a number line.

3.
$$r > 7$$

4. $x \le -1$
4. $x \le -1$
4. $x \le -1$
4. $x \le -1$

It's the Inequalities Matching Game!

<u>Directions</u>: Pair the inequality to its matching number line. Do not use lines. Put the letter of the correct number line on the blank next to the inequality.

1. $x > 4$	T.	$\left< \begin{array}{cccc} -5 & 0 & 4 & 5 \\ \hline + & + & + & + & + & + \\ \hline \end{array} \right>$
2. <i>x</i> ≥ -2	E.	$\left< \begin{array}{cccc} -5 & 0 & 4 & 5 \\ \hline + & + & + & + & + & + \\ \hline \end{array} \right>$
3. <i>x</i> > 3	S.	$\left<\begin{array}{cccccccccccccccccccccccccccccccccccc$
<u> </u>	Q.	$\left\langle \begin{array}{cccc} -5 & -2 & 0 & 5 \\ \hline 1 & 1 & 1 & 1 & 1 & 1 \\ \hline \end{array} \right\rangle$
5. <i>x</i> ≥ 4	0.	$\left(\begin{array}{cccccccccccccccccccccccccccccccccccc$
6. <i>x</i> ≥ −3	U.	$\left\langle \begin{array}{cccccccccccccccccccccccccccccccccccc$
7. <i>x</i> < −2	I.	$\left<\begin{array}{cccccccccccccccccccccccccccccccccccc$
<u> 8. x ≤ −3</u>	Α.	$\left(\begin{array}{cccccccccccccccccccccccccccccccccccc$
	N.	$\left(\begin{array}{cccccccccccccccccccccccccccccccccccc$

When completed correctly, your solution (from top to bottom) should spell a word that means <u>a</u> <u>mathematical statement that says two expressions are equal</u>.

_ ___ ___ ___ ___ ___

_ __

_ __

Error Analysis

Name _____ Date _____

Directions: Identify the mistake in the first column and then correct it in the second column. Once you make the correction and show the appropriate work, graph your solution. THERE IS AN ERROR IN EACH PROBLEM.

Inequality	Correction	Graph
$6x - 4 > -2$ $\frac{+2 + 2}{6x > -2}$ $x > -\frac{1}{3}$		← →
$-x - 6 \le 2 - (3x - 4)$ -x - 6 \le 2 - 3x + 4		
$-x - 6 \le 6 - 3x$ $\frac{+x + x}{-6 \le 6 - 2x}$ $\frac{-6 - 6}{0 \le -2x}$ $0 \ge x$		← →
2(x - 4) - 7x < 37 2x - 8 - 7x < 37 $\frac{+7x + 7x}{9x - 8 < 37}$ +8 < 45 9x < 45 X < 5		→
$2x - 6 \ge 8 + 4x$ $\underline{-4x} \ge \underline{-4x}$ $-2x - 6 \ge 8$ $\underline{+6 + 6}$ $-2x \ge 14$ $x \ge -7$		→

Inequality Solitaire-Part 1

*Solve each inequality below by showing your work in each box

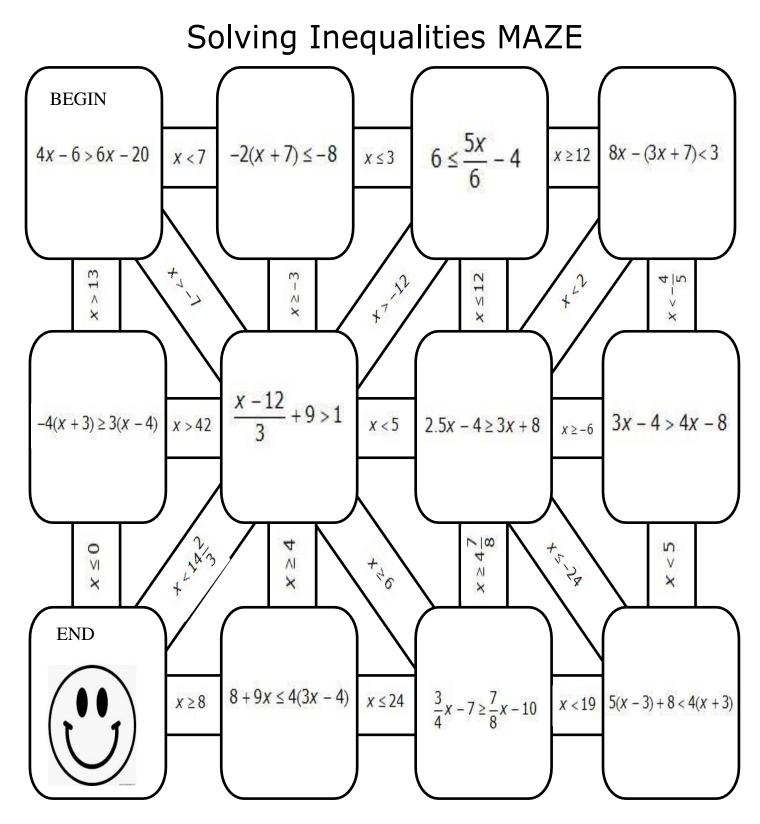
#1	38 > 2(x+8)	#2	$-3(2x-1) \le x - 18$
#3	$-(4x-5)+16x \ge -31$	#4	3(-5-x)+x < -10-x
#5	-7x - 11x > 26 - x + 9x	#6	$25-2x \le 5(2-x)$
#7	$x - 32 \ge 32 + 9x$	#8	-3x + 51>13+ 7x - 22

<u>Time to check your answers —Complete Inequality Solitaire Part 2</u>

Inequality Solitaire-Part 2

*Solve each inequality below by showing your work in each box When completed correctly each answer should match the number from Part 1

#1	35 > -5(4 - x)	#2	$-(x-26) \le x-4(1-2x)$
#3	$-(4x-15) \ge -9(3+2x)$	#4	21 + x > 2(-2 - 5x) + 6x
#5	7(x+1) - 7x < 1 - 6x	#6	$-2(x-20) \le 10-10(1+x)$
#7	$-2(9+4x) \ge -x+6-4x$	#8	9x - 1 + 11x < 7(11 + x)



Start at Begin. Complete problems to work through the maze to End. Show your work in the boxes on the next page.

Solving Inequalities Maze –Show your work

Math Journal

Write a paragraph that answers the following questions: <u>How is the</u> solution to an inequality different from the solution to an equation? Why is it important to identify the solutions to an inequality?

