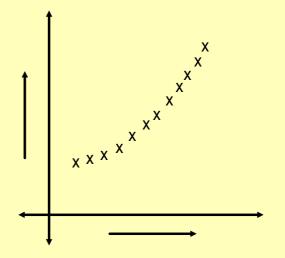


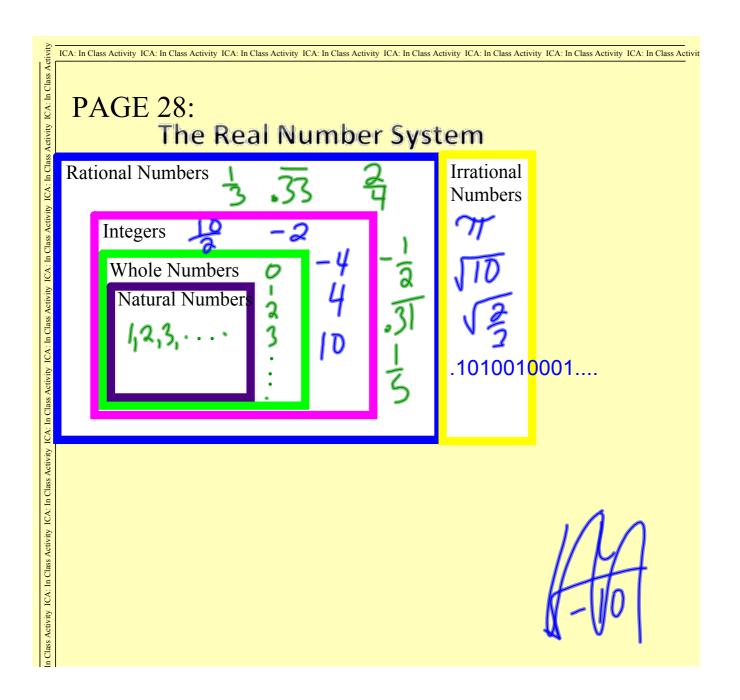
Warm-up Warm-up

### Warm-up: Answer the following questions.

- 1) Does the graph have a positive or negative correlation?
- 2) Does the graph have a strong or weak correlation? strong
  0.5-1
- 3) What is the approximate correlation coefficient for this graph?

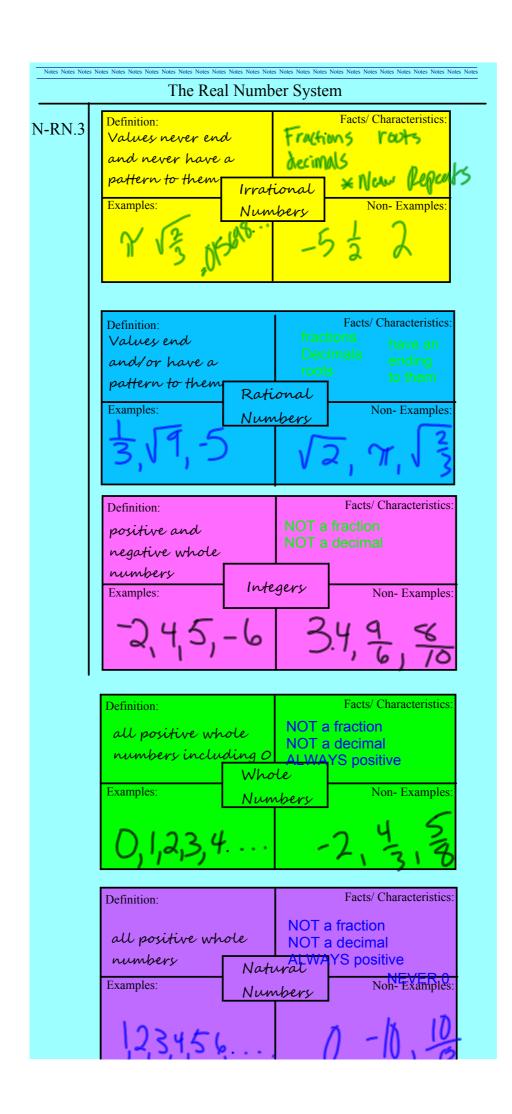
0.7 - 0.8





Summary:

The Real Number System N-RN.3 **Irrational Numbers Rational Numbers** Integers Whole Numbers Natural Numbers



ICA: In Class Activity ICA: In Class Activity

### ICA:

- 1) Which of the following statements shows a relationship that is correlated but *not* causal?
  - A) The amount of rainfall received and level of water in the lake.
  - B) The number of lights left on each day and the amount of the electric bill.
  - C) The increase of warm, sunny days and the number of ice cream vendors visible.
  - D) The number of hours worked and how much money is made.
- 2) Which of the following statements shows a relationship that is correlated but *not* causal?
  - A) The number of tardies to class and the number of detentions received.
  - B) The season of the year and the number of water related injuries/deaths.
  - C) As the temperature rises, more the mercury in a thermometer will expand and rise.
  - D) The larger the dimensions of a rectangular patio, the more square footage there will be.
- 3) Which of the following statements shows a causal relationship and *not* just a correlated on
  - A) An individual's decision to work in construction and his diagnosis of skin cancer.
  - B) A decrease in temperature and the increase in attendance at an ice skating rink.
  - C) As a child's weight increases so does her vocabulary.
  - D) The number of minutes spent exercising and the amount of calories burned.
- 4) Which statement below might be caused by the statement, "The more the furnace runs...."
  - A) The less time individuals will spend outside
  - B) The longer you will have to let your car warm up
  - C) The colder it is outside
  - D) The warmer the house becomes

**1.** Andrew is considering accepting one of two sales positions. ABC Company offers a yearly salary of \$50,000. XYZ Company offers a yearly salary of \$38,000 plus a 9% annual commission on sales. For what amount of sales s is the salary at XYZ Company greater than the salary at ABC Company?

**2.** 
$$5 \cdot 2 + \left(3^2 \div 3 + \sqrt{16}\right)$$
 **3.**  $8(x+2) - 5x = 28$ 

3. 
$$8(x+2)-5x=28$$

4. 
$$7x + 4 = 3x - 20$$

5. 
$$11 + x - 7 = 21$$

**6.** 
$$13 = -3(x+5) + 7x$$

7. 
$$9x + 2 = x + 5$$

8. 
$$11x - 2(8x + 5) = 15$$

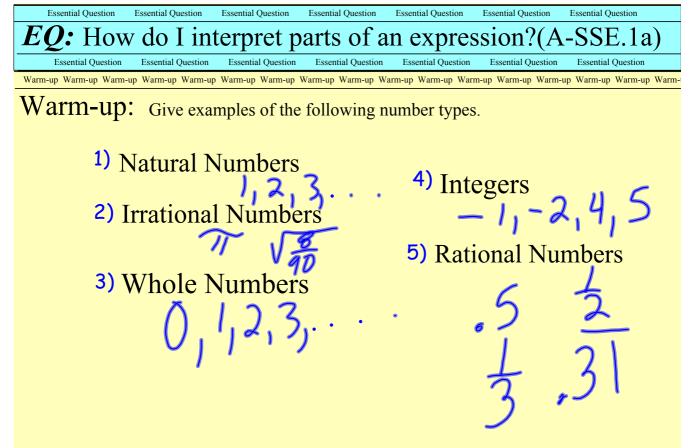
9. 
$$-3x + 8 + 15x = 32$$

Closure Closur

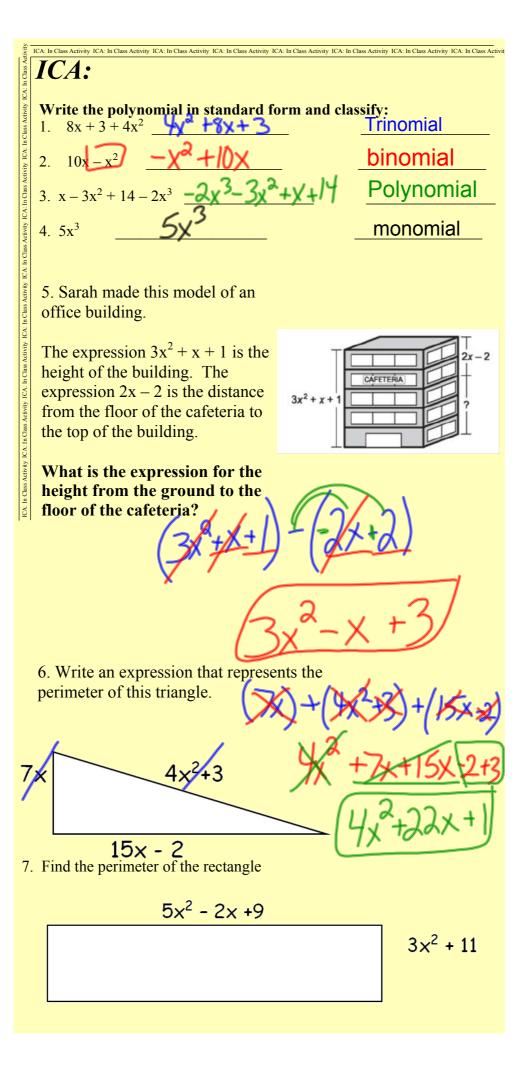
Write your summary for today's lesson. Also look back through your note what do you still need to work on?

ure Closure Cl

	Warm Up	0	000000000000000000000000000000000000000	0	Week 6, Lesson 2	
	_					
					_	
		0		0		
			8			
D						Dogo
Page		O		0		Page
<b>3</b> U						31



Notes Parts of an Expression **Vocabulary:** A-SSE.1a **Term-** includes numbers (numerical coefficients) and letters (variables). Terms erated by <u>addition</u> or <u>Subtraction</u> Examples: -12,  $-4x^2$ ,  $15x^7y^9$ ,  $5x^3$ ,  $4x^2y$ ,  $-x^2$ , xare seperated by Subtraction <u>Coefficient-</u> a number <u>followed</u> by a variable. (number in front of the variable) Like Terms- have the same variable(s) and the same degree for each variable. Examples: 2x, 3x, -6x **Polynomial**- a mathematical expression involving a sum of \_ in one or more degree multiplied by a Coefficient Polynomial can be used to represent any number of terms. Polynomial is often used to represent more than 3 terms. Monomial: term polynomial Examples: Binomial: Examples: Trinomial: **Examples: Degree of a Polynomial**- The degree of a polynomial is the greatest of the degrees of its terms after it has been simplified. To find the degree of each term, add the exponents for each variable. **Standard Form of a polynomial:** terms are placed in order from highest degree to lowest degree Summary:



Solve and Graph on a Number Line:

1. 
$$4(2-x) < -8$$

2. 
$$18 \ge 3(2x-4)$$

Solve. Justify all equations.

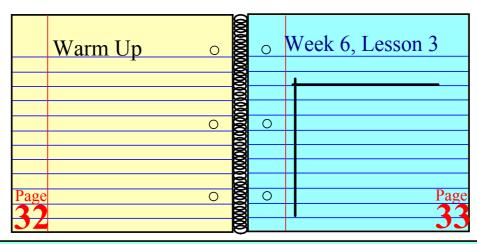
1. 
$$3(2x+1) = 2x+15$$

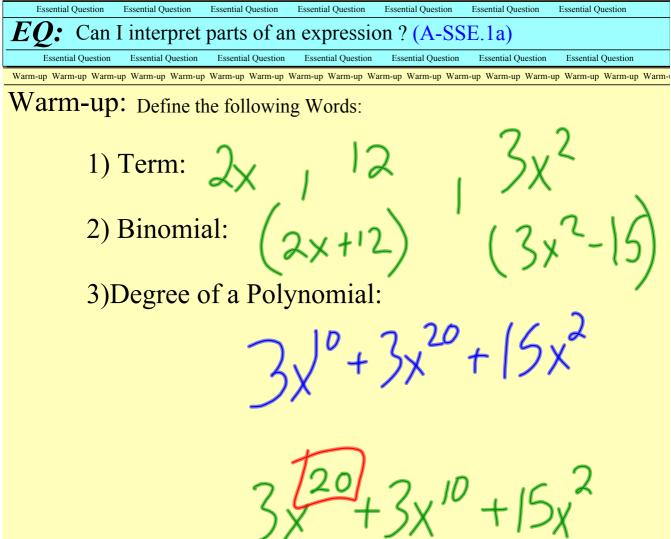
1. 
$$3(2x+1) = 2x+15$$
 2.  $9x+4-2x = 4(x+4)$ 

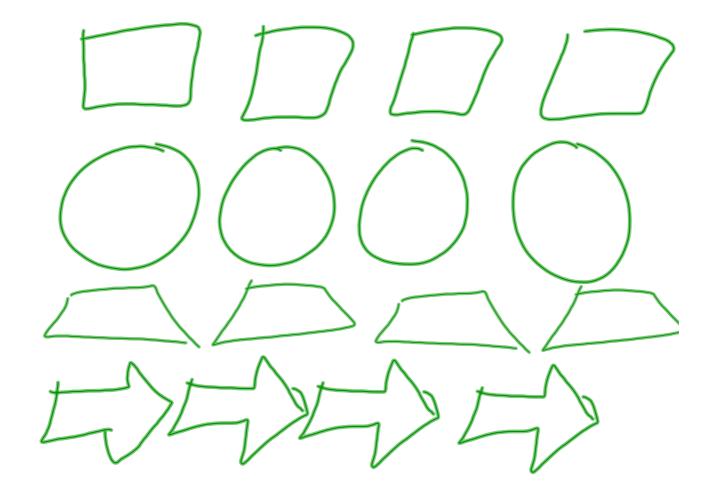
3. 
$$20+100-10x=2(5x-40)$$
 4.  $\frac{1}{4}x+20=x$ 

**5.** 
$$4\left(0.1+\frac{x}{8}\right)=10$$

$$6. \quad 5x + x + 5x + x = 48$$







+ or - terms

they must have Variables that are twins

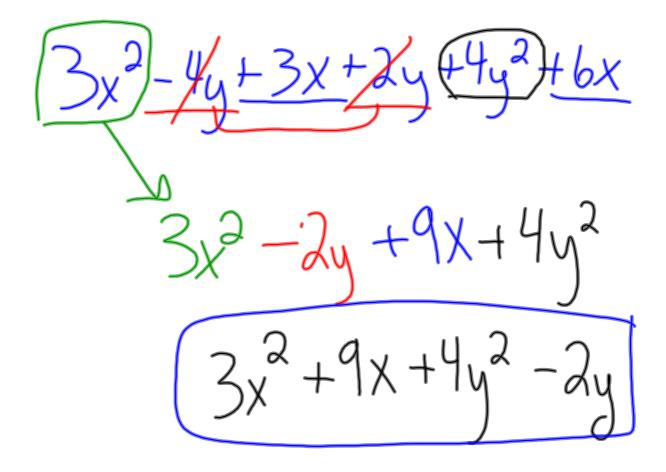
$$\frac{3\sqrt{3}}{4\sqrt{3}} + \sqrt{4\sqrt{3}}$$

$$\frac{4\sqrt{3}}{4\sqrt{3}} + \sqrt{4\sqrt{3}}$$

$$-\frac{3}{4\sqrt{3}} + \sqrt{3\sqrt{3}}$$

$$-\frac{3}{4\sqrt{3}} + \sqrt{4\sqrt{3}}$$

$$-\frac{3}{4\sqrt{3$$



### ICA:

y ICA: In Class Activity ICA: In Class Activity

# Group Activity

# Addicted to Addition

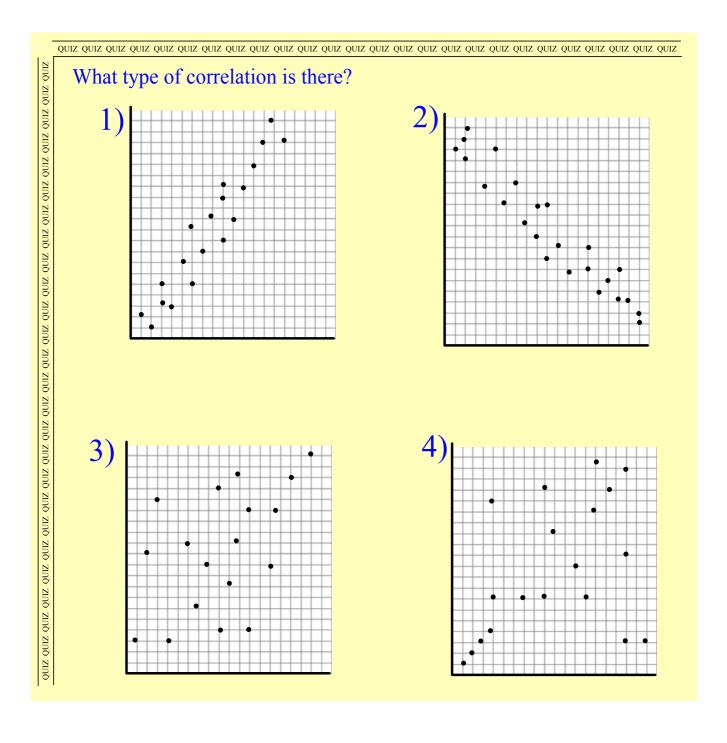
Day 2\_Addition Addiction Cards.doc

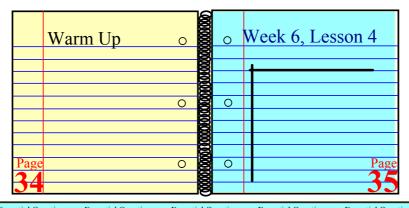
Day 2\_Addition Addiction Student Worksheet.doc

Spiral Review Sp

Look at the following data set:  $\{4, 12, 9, 21, 18, 45, 6, 17\}$ 

- 1. Determine the outlier.
- 2. How does the outlier affect the mean? What is the mean?
- **3.** How does the outlier affect the median? What is the median?
- **4.** How does the outlier affect the standard deviation?



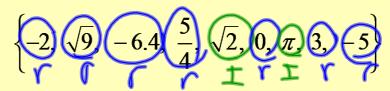


Essential Question Essential Question Essential Question Essential Question Essential Question Essential Question Essential Question

What do I have left to do in Unit 4 & what's coming up in Unit 5 Part 1?

Essential Question Essential Quest

### Warm Up:



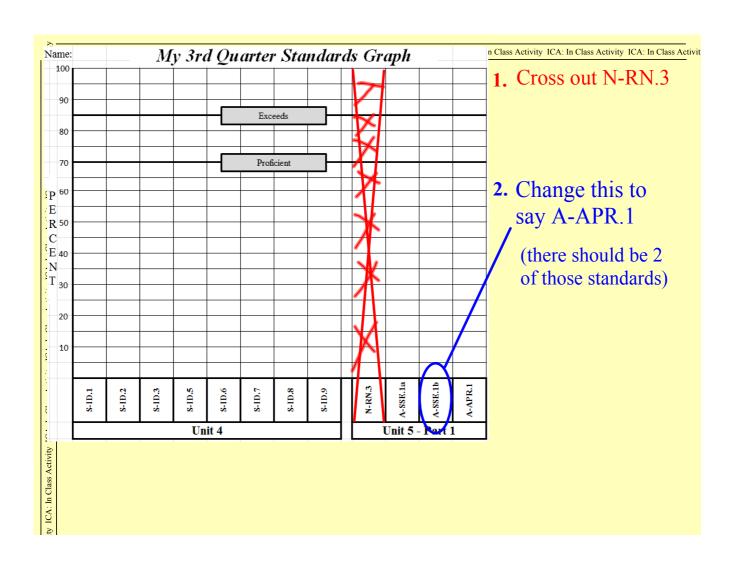
- **1.** Make 2 lists. One of all the rational numbers in the set above and one of all the irrational numbers.
- How many terms are in the algebraic expression 8x + xy 6y? trinomial
- 3. What is the coefficient of x in the algebraic expression +x+12?
- 4.  $(8x^2z 6xz) + (x^2z + 3xz 2)$

ICA: In Class Activity ICA: In Class Activity

## ICA:

- 1. Update Grade graphs for Unit 4.
- 2. Write down the standards that you still need to improve. Page 347
- **3.** Write down how you will fix those scores. Be specific.
- **4.** Write down how you will fix those scores. Be specific.

iy ICA: In Class Activity ICA: In Class Activ



by ICA: In Class Activity ALG 2 - Unit 5 Part 1 Review.doc Page 35 Pull Student Self Assessment ALG 2 - Unit 5 Part 1: Polynomials Period: Post-Test Am I ready for the Level of Mastery Tutoring Action Level of Accuracy: Readiness Check: Some Evidence 1 - 549 Approaches 55 - 69% test? Proficient 70 - 84% How well do I know it? Plan What were my scores? Exceeds 85 - 100% No Evidence 0% Tutoring on Test Points Earned Points Standards Y or N? nitials afte Learning Target (I can...) Percent Earned Circle 1 tutoring Yes 0-69% A-SSE.1a I can interpret parts of an expression. 1-5 No 70-100% 10 10 Yes 0-69% A-APR.1 I can add and subtract polynomials. 6 - 10 No 70-100% 20 20 A-APR.1 I can multiply polynomials. No 70-1009

ICA: In Class Activity ICA: In Class Activity

#### ICA:

- 1. What operation always joins a variable and its coefficient in an algebraic expression?
- 2. Classify each of the following as a monomial, binomial or a trinomial.

a. 
$$x+1$$

b. 
$$5 - x^2$$

c. 
$$x^2 - x - 1$$

- 3. Explain the meaning of the exponent 2 in the algebraic expression  $(3x + y)^2$ .
- Describe the error Kate made when simplifying the expression shown. 2(5x+6)=10x+6

LOA: In Class Activity ICA: In Class Activity

Day 2\_Addition Addiction Student Worksheet.doc

Day 2\_Addition Addiction ANSWER Key.doc

Day 2\_Addition Addiction Cards.doc

ALG 2 - Unit 5 Part 1 Review.doc