



8th Math Agenda

Week 1.2

Week 1.2				Stamp	Grade
Monday	8/31/2015	Objective:	Scientific Notation		
		Homework:	Complete Homework		
Tuesday	9/1/2015	Objective:	Sets and Subsets		
		Homework:	Complete Homework		
Wednesday	9/2/2015	Objective:	Test		
		Homework:	Complete Homework		
Thursday	9/3/2015	Objective:	Write Equations & Situations for Equations		
		Homework:	Complete Homework		
Friday	9/4/2015	Objective:	Write Inequalities & Situations for Inequalities		
		Homework:	Complete Homework		
First Things First					

HOMWORK AVERAGE: _____

Final Weekly Homework Average: _____

Parent Signature _____ (+5 points)

Name: _____ Date: _____ Period: _____

1. What would the best name for the set of numbers shown below be?

-9, 6, 0, -14, 120, -304, 6

2. Which of the numbers in the set below could be defined as an integer?

-4, 5, $-\frac{2}{3}$, 0, -4.5, -16, 22, $-5\frac{1}{2}$

-4, _____, 22

3. Which of the numbers in the set below could belong to the irrational number set?

-6, $-\frac{1}{3}$, $\sqrt{10}$, $\sqrt{25}$, 4.576987... , $3.42\overline{42}$

[two answers]

4. Which of the following statements below is true?

- I. All natural numbers are whole numbers.
- II. All real numbers are either rational or irrational.
- III. All negative numbers are integers

- A. I and II
- B. I only
- C. II only
- D. I, II, and III

5. State the most specific set that the numbers below would belong to.

A. 3.77×10^{-9} _____

B. -6 _____

C. π _____

D. $\frac{6}{2}$ _____

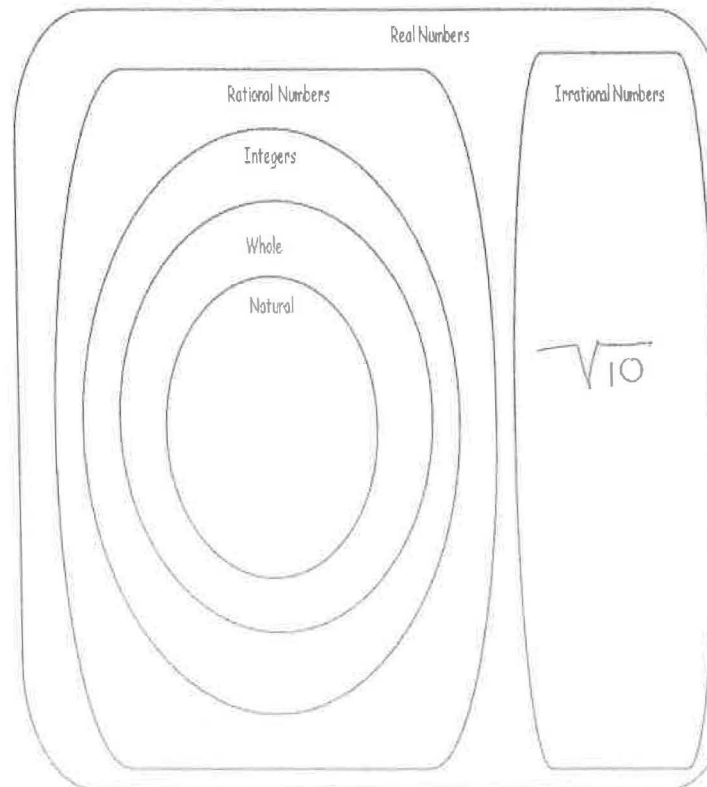
E. $\frac{3}{2}$ _____

#5

answer bank: irrational, natural, rational, rational, integer

6. Place the numbers below in the Venn Diagram shown.

5, 0, $\sqrt{10}$, 15, 5.99×10^4 , 1.8, $-\frac{36}{6}$



Name: _____ Date: _____ Period: _____

Directions: For 1-4, match each situation to the inequality. There may be more than one inequality that matches each situation, and some may not match at all.

1. Charter-A-Bus charges \$50 plus \$0.40 a mile for renting a charter bus. Buses-4-U charges \$35 plus \$0.55 a mile. For what number of miles is Buses-4-U the less expensive company for renting a charter bus?
 - a. $40 + 0.55x < 0.40x$
 - b. $50x + 40 < 35x + 55$
 - c. $50 + 0.4x > 35 + 0.55x$
 - d. $35x - 5.50 \geq 40x - 4$
 - e. $35 + 0.55x < 50 + 0.4x$
 - f. $35x + 5.5 \geq 40x + 4$
 - g. $0.40x > 40 + 0.55x$

2. Ocean Adventures charges \$50 an hour to rent a sailboard plus \$40 for a wetsuit. Water Fun charges \$35 an hour to rent a sailboard plus \$55 for a wetsuit. When will the cost of renting a sailboard and wetsuit be less at Ocean Adventures?

3. The Border Mobile Cell Company charges \$40 per month plus 55 cents per minute while Central Cell Company charges no monthly fee but 40 cents per minute. When will the number of minutes, for x Border Cell Company would be less expensive than Central Cell Company in a month?

4. Tees 4 U charges \$35 for each T-shirt and offers a \$5.50 discount off the total number of T-shirts Purchased. T-time charges \$40 for each t-shirt and offers a \$4.00 discount. How many T-shirts must you buy at Tees 4 U for the total cost be the same or more than the amount of the total cost at T-Time?

5. Which situation best represents the inequality, $530 - m \geq 125 + 2m$?
 - A. Helen has \$530 to spend on a new washing machine. After she buys the new washing machine, she has less than the cost of two washing machines plus \$125. Let m represent the amount Helen spent on the washing machine.
 - B. There are 530 calculators in the math closet at Berkner High School. The Algebra teachers took out enough one class set of calculators, and left at least 125 calculators plus 2 class sets in the closet. Let m represent the number of calculators in each class set.
 - C. Jason is buying a cell phone plan. He had \$530 and then bought a cell phone plan. He now has less money than the cost of 2 cell phone plans plus a \$125 phone. Let m represent the cost of each cell phone plan.
 - D. The Westwood cheerleaders began the week with 530 items to sell at a bake sale fundraiser. They sold some items on Monday. At the end of the week they had at least 125 items left to sell. Let m represent the number of items they sold on Monday.

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8th grade Math

Show your work!

Due Friday

Monday, 8/31/2015

Which fraction falls between points A and B on a number line?



- A. $-\frac{3}{8}$
B. $-\frac{1}{8}$
C. $-\frac{3}{16}$
D. $-\frac{2}{3}$

Tuesday, 9/1/2015

The average distance from Earth to the sun is about 9.3×10^7 miles. The average distance from Mars to the sun is about 1.4×10^8 miles. When both planets are at their average distance from the sun, how much farther is Mars from the sun than Earth?

- A. 79,000,000 mi
B. 47,000,000 mi
C. 107,000,000 mi
D. 233,000,000 mi

Wednesday, 9/2/2015**TEST****Thursday 9/3/2015**

- Look at notes

Friday 9/4/2015

This week in math class I learned _____
