Geometry

Good morning!

Find your seat

Start on the Student information sheet

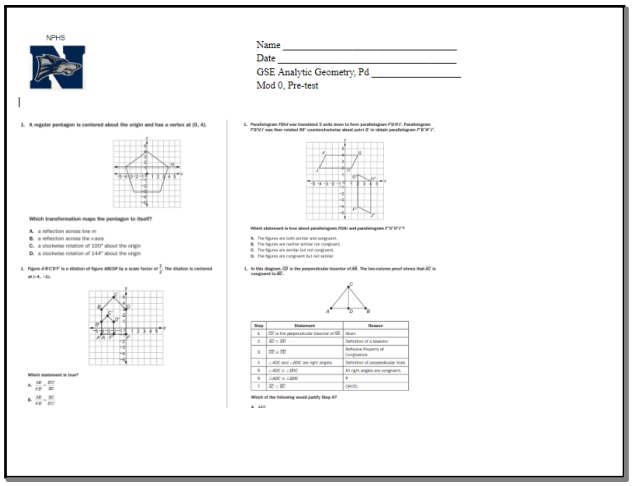
Welcome

Index cards

Pretest

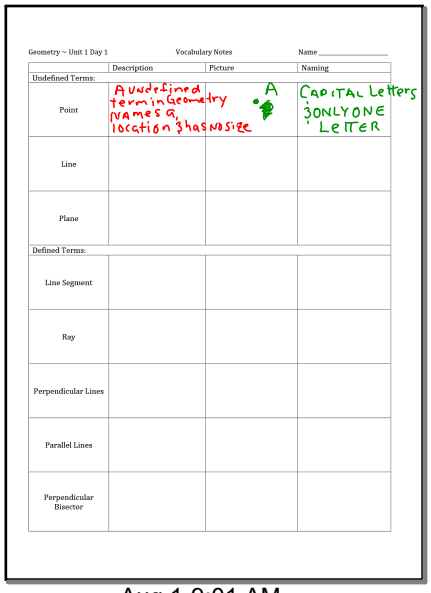
Day1 - Geometry Vocabulary

Aug 1-8:49 AM


NPHS

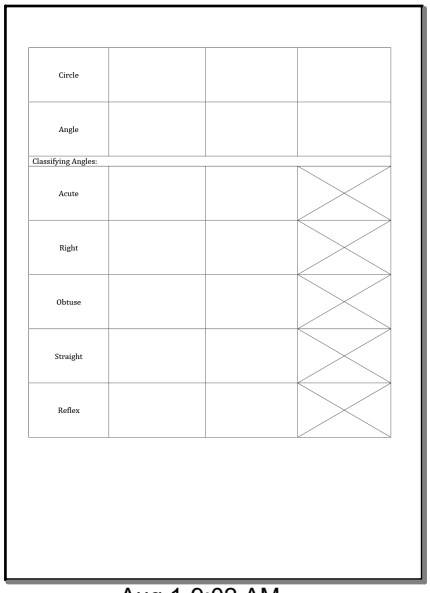
Name _____
Date _____
GSE Analytic Geometry, Pd _____
Mod 0, Pre-test

Aug 1-8:59 AM


Geometry ~ Unit 1 Day 1 Vocabulary Notes Name _____

	Description	Picture	Naming
Undefined Terms:			
Point	A undefined term in Geometry names a location & has no size	A	CAPITAL Letters 3 ONLY ONE LETTER
Line			
Plane			
Defined Terms:			
Line Segment			
Ray			
Perpendicular Lines			
Parallel Lines			
Perpendicular Bisector			

Aug 1-9:01 AM



Circle			
Angle			
Classifying Angles:			
Acute			
Right			
Obtuse			
Straight			
Reflex			

Aug 1-9:02 AM

Get a notebook - this is your cheat book...

HO Rational Numbers

Explore Weebly

sign up for Remind

look at some resources on Remind

Aug 1-9:04 AM

First entry in our 'cheat notebook.'

Order these numbers from leaast to greatest

70, -4, 0.3, sqrt(9), 2/3

Aug 2-9:12 AM

Name _____ Date _____

Day 1 - The Real Number System

The REAL # SYSTEM is divided into two categories: rational and irrational.

- RATIONAL Numbers: real numbers such as ½ and -3/1 that can be written as a ratio of two integers.
- IRRATIONAL Numbers: real numbers such as √2 or π that are not rational. 3.3, 2.4689

Rational Numbers include WHOLE #S quotients and fractions that can be written as the ratio of two integers.

- Integers: Can be + or − but are not fractions Ex: 0, 1, 8, -2
- Whole Numbers: 0 and the naturals Ex: 5, 80
- Natural Numbers: The counting #s which occur in nature Ex: 9, 5, 20

THE REAL NUMBER SYSTEM

√9 = 3

RATIONAL $\frac{1}{3}$ $\frac{3}{4}$ $\frac{22}{7}$ .25 $-\frac{5}{1}, -\frac{3}{1}, 3$

INTEGERS -3 9

Whole 0 5

Natural 2 3

13, 7, 53

IRRATIONALS

π = 3.1457...

√2 = 1.41...

-π

.33333...

Aug 2-8:08 AM

Foundations of Algebra Unit 1 – Rational and Irrational Numbers Notes

Zero

Zero = NO VALUE

Zero is not + or −. Zero does not have an opposite number.

Graphing Numbers on a Line

Graph the following on a number line and compare.

A. -3 and 2

B. -4 and -7

C. 5 and -6

-3 < 2

-4 > -7

5 > -6

3 = 3

Absolute Value

The _____ of a number is its distance from zero.

The notation for absolute value is _____.

Using the number line, find the absolute value of each.

A. |5|

B. |-8|

Finding the Opposite of a Number

The opposite of a number is the same distance from zero. Both numbers have the same _____.

Using the number line, find the opposite of the following:

A. Opposite of 2:

B. Opposite of -11:

Real Numbers in the Real World

What number would represent the following situations?

A. A hawk descends at 150 miles per hour when striking its prey.

B. A skier wins a downhill race by skiing at 126 miles per hour.

Aug 2-8:08 AM

Foundations of Algebra Unit 1 – Rational and Irrational Numbers Notes

Name _____ Date _____

Day 2 - Rational Numbers and Operations

A _____ _____ is:

- Any number that can be written as a _____
- Rational numbers include: fractions, terminating and repeating _____, ratios, and _____.

Equivalent Rational Numbers

To change fractions to decimals and decimals to fractions, we will use the _____ button.

Ex: How can a loss of 5/8 per share be recorded as a decimal?

Try It: Write each fraction or mixed number as an equivalent decimal. Round to the nearest hundredth.

1. $-\frac{3}{8} =$
2. $2\frac{7}{16} =$
3. $2\frac{4}{5} =$
4. $-\frac{32}{5} =$

Comparing and Ordering Decimals

Compare the digits in each place-value position, moving _____.

Ex: Compare the following using <, >, or =.

1. 94.365 ____ 94.3653
2. -8.20309 ____ -8.204
3. -4.2 ____ $-4\frac{2}{5}$

Ex: Put the following in order from least to greatest.

1. 0.04, 0.027, 0.2, 0.098

2. -0.5763, -0.58, -0.5367, -0.0875

Aug 1-9:04 AM

Foundations of Algebra Unit 1 – Rational and Irrational Numbers Notes

Ex: Without using the calculator, tell whether the fraction is closest to -1, -1/2, 0, ½, or 1.

1. $\frac{55}{58}$
2. $-\frac{8}{14}$
3. $\frac{9}{28}$
4. $\frac{2}{14}$

Adding Rational Numbers

When adding two rational numbers, the sum will be the sign of the number with the _____ absolute value.

Ex: Find the sum.

1. 5 + |-8| =
2. -9 + 21 =

Multiplying Rational Numbers

When multiplying two positive numbers, the product is _____.

When multiplying two negative numbers, the product is _____.

When multiplying a positive and a negative number together, the product is _____.

	POSITIVE	NEGATIVE
POSITIVE		
NEGATIVE		

Examples:

1. $\frac{1}{4} \cdot \frac{2}{5} =$
2. $\frac{2}{3} \div \left(-\frac{-7}{9}\right) =$

Real World Applications

1. In an online survey, about ¼ of teenagers go to sleep between 9 and 10PM, while 13/50 of teenagers got to sleep at 12AM or later. Which group is larger?

2. Tessa feeds her dog Roscoe 3.75 cups of dog food per day. If she buys a bag of food that contains 165 cups, how many days will the bag of food last?

Aug 2-8:06 AM