

Mr. Northcutt's Math Classes Class Presentation

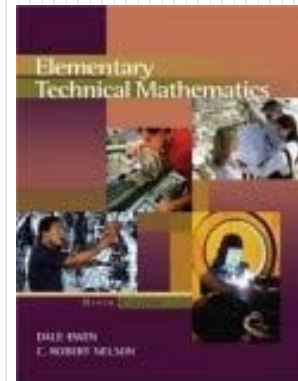
Thursday, September 11, 2008 (8)



Math 1



Math 2



Applied Math

Math 1 – Daily Summary

- **Announcements**

- New Seating Chart Tomorrow
- **Hand in Your Take-Home Quiz**

- **Class Objectives**

- Quiz (1-1 thru 1-2)
- Missing Book #'s & Sign-out Forms
- Number Systems (\mathbb{N} atural-to- \mathbb{R} real) & Operations
 - Natural \rightarrow Whole \rightarrow Integer \rightarrow Rational \rightarrow Irrational \rightarrow Real

- **Assignment**

- Lesson 1-3: 1-10, 19-23, 42-46

Why – Does it Make Sense?

- **Go back 10,000 years...where did we start...what did we need to do?**

- **Pick a number...what are the implications?**

Classifying Numbers {Sets}

A number can belong to more than 1 set.

- **Natural Numbers** {1, 2, 3, 4,...}
- **Whole Numbers** {0, 1, 2, 3, 4,...}
- **Integers** {..., -2, -1, 0, 1, 2,...}
- **Rational Numbers** { $\frac{p}{q}$, where p, q Integers}
- **Irrational Numbers** {Not Rational}
- **Real Numbers (\mathbb{R})** {Rational + Irrational}

Number Line



HW Starter

- **Name the set(s) of numbers to which it belongs:**

1. -1

2. $\frac{1}{3}$

3. -4.8

HW Starter + COUNTEREXAMPLE

- **True or False, give counterexample if False.**

19. All integers are rational numbers.

20. All negative numbers are integers.

- **Write as a/b with integers to show it is Rational.**

42. All integers are rational numbers.

Math 2 – Daily Summary

- **Announcements**

- New Seating Chart Tomorrow
- **Chapter 1 Test on Monday**

- **Class Objectives**

- Missing Book #'s and Sign-out Forms
- Mathematical Models (wrap-up of Inductive Reasoning)

- **Assignment**

- Lesson 1.6: 1-4, 7, 9, 10, 12, 15, 17
- Chapter 1 Take-Home Test (due Monday)

Mathematical Models

- **Graphs or pictures of real-world situations**
- **Equations that describe a problem**
- **Simulation of a Problem (in Groups of 4-5)**
 - Each person at a party shakes hands with everyone else at the party. How many handshakes are there total?

People	1	2	3	4	...	n
Shakes						

HW Starter

- **If you place 35 points on a piece of paper so that no three are in a line, how many line segments are necessary to connect each point to all the others?**

Applied Math – Daily Summary

- **Announcements**

- New Seating Chart Tomorrow (Move Forward)
- **Hand in Your Take-Home Quiz (if you haven't already)**

- **Class Objectives**

- Quiz (1-1 thru 1-4)
- Divisibility & Prime Factorization

- **Assignment**

- Lesson 1.5: 7-14, 21-23, 47, 52, 56,

Divisibility

- **A number is divisible by a second number if, when you divide the first by the second, the remainder is ____.**

- **Divisibility Test**
 - Divisible by 2

 - Divisible by 3

 - Divisible by 5

Prime Factorization

- A number is **Prime** if it is greater than 1 and only divisible by 1 and _____.
- The 1st ten prime numbers are:
- Each Whole Number has a Unique Prime Factorization (product of Prime Factors)

20

78

Why?
LCD for Fractions