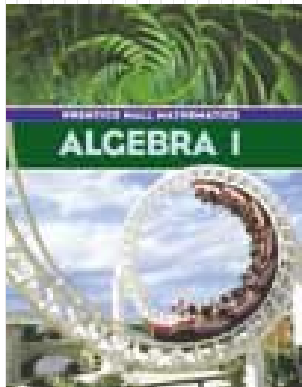
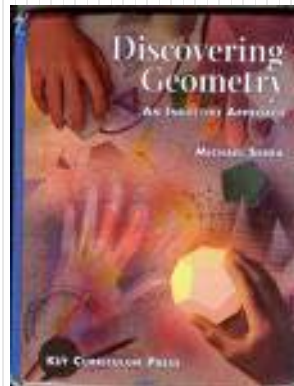


# Mr. Northcutt's Math Classes Class Presentation

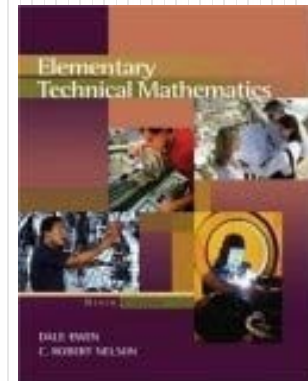
Monday, October 6, 2008 (24)



Math 1



Math 2



Applied Math

# Math 1 – Daily Summary

- **Announcements**
  - Quiz Wednesday: 2-1 thru 2-4
  - Early Release Wednesday
- **Class Objectives**
  - More Solving Equations
    - Fractions & Decimals
- **Assignment**
  - Lesson 2-3: 21-48 (by 3), 53-59



# HW Answers: 2-3 (1)

**1:** 9

**2:** 8

**3:**  $5\frac{4}{7}$

**4:** 3

**5:**  $2\frac{6}{7}$

**6:** 7

**7:** 4

**8:** 3

**9:** -3

**10:**  $x + \frac{1}{2} \bullet x = 1725$ ; \$1150

**11:**  $x + 9 + x = 25$ ; 8 ft x 9 ft

**12:** 3

**13:** 8

**14:** -2

**15:**  $\frac{2}{3}$

**16:** 2

**17:** 4

**18:** 4

**19:**  $6\frac{4}{5}$

**20:**  $13\frac{2}{5}$

# HW #10

- **Two friends are renting an apartment. They pay the landlord the 1<sup>st</sup> month's rent. The landlord also requires them to pay an additional half of a month's rent for a security deposit. The total amount they pay the landlord before moving in is \$1725. What is the monthly rent?**

# Solving Equations...So Far



- The “=” sign is like a **BALANCED SCALE**

- Must do the same thing to both sides
- Goal is to **SOLVE** -- means **ISOLATE THE VARIABLE!**

Get Whiteboards!

- So far we have learned to:

- **ADD/SUBTRACT** from both sides of an equation to solve.
- **MULTIPLE/DIVIDE** both sides of an equation to solve.
- Combine **LIKE TERMS** to simplify an equation.
- Use the **DISTRIBUTIVE PROPERTY** to remove “(…)” or “[…]”.

- Today we will do some practice...with **fractions** and **decimals**.

# Fractions in an Equation (2 Ways)



$$\frac{2x}{3} + \frac{x}{2} = 7$$

$$\frac{2x}{3} = \frac{2}{3}x$$

$$\frac{2x}{3} + \frac{x}{2} = 7$$

Every term  
must be  
treated  
equally!

# Practice (Fractions)



$$\frac{m}{4} + \frac{m}{2} = \frac{5}{8}$$

$$\frac{2}{3}x - \frac{5}{8}x = 26$$

5  
—  
6

624

# Decimals in an Equation (2 Ways)



$$0.5a + 8.75 = 13.25$$

Every term  
must be  
treated  
equally!

$$0.5a + 8.75 = 13.25$$



# Steps for Solving Equations



1. **Clear Fractions and Decimals.**
2. **Use Distributive Property to remove parentheses.**
3. **Combine Like Terms.**
4. **Undo Addition/Subtraction.**
5. **Undo Multiplication/Division.**

Put this in your Notebook!

# Practice (Decimals)



$$0.025x + 22.95 = 23.65$$

$$1.2x + 3.6 + 0.3x = 2.4$$

28

4

# Math 2 – Daily Summary

- **Announcements**

- Early Release on Wednesday

- **Class Objectives**

- Chapter 2 Test Review
- Angle Relationships
  - Vertical Angles
  - Linear Pair of Angles
- Algebra Review – Solving Equations
  - Distributive Property and Combining Like Terms

- **Assignment**

- **Lesson 4.1: 1-17 ALL**

# Chapter 2 Test Review

- **Scoring Summary**

Period	Average	High	Low
4 <sup>th</sup>	79%	100%	59%
5 <sup>th</sup>	80%	98%	63%

- **Areas for Improvement**

- **T/F: 8, 9, 11, 12, 13**
- **Converse & Counterexamples: Part D #1a-b**
- **Visual Problem Solving: Part D #2, #5**

# Get a Whiteboard & Protractor...Now!

- Draw 2 Lines:  $\overleftrightarrow{PQ}$  and  $\overleftrightarrow{RS}$  . Label point of intersection  $T$ .
- Measure:

$$m\angle PTS = \underline{\hspace{2cm}}$$

$$m\angle RTQ = \underline{\hspace{2cm}}$$

$$m\angle PTR = \underline{\hspace{2cm}}$$

$$m\angle STQ = \underline{\hspace{2cm}}$$

- Draw 2 Lines:  $\overleftrightarrow{JK}$  and  $\overleftrightarrow{LM}$  . Label point of intersection  $N$ .
- Measure:

$$m\angle JNL = \underline{\hspace{2cm}}$$

$$m\angle KNM = \underline{\hspace{2cm}}$$

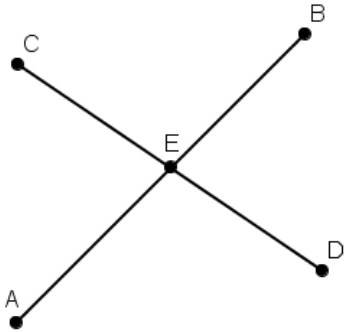
$$m\angle JNM = \underline{\hspace{2cm}}$$

$$m\angle KNL = \underline{\hspace{2cm}}$$

# Vertical Angles & Linear Pair of Angles

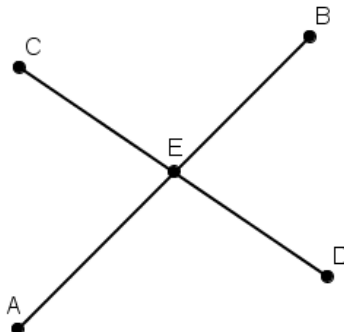
- **Vertical Angle Conjecture**

- If two angles are vertical angles, then \_\_\_\_\_.



- **Linear Pair Conjecture**

- If two angles are a linear pair of angles, then \_\_\_\_\_.



How might we  
PROVE these  
conjectures?  
What does  
“PROVE” mean?

# Applied Math – Daily Summary

- **Announcements**

- Early Release on Wednesday
- Chapter 3 (Metric System) Test on Friday

- **Class Objectives**

- Metric System Terminology
- Metric Length (meter, **m**)

- **Assignment**

- **Lesson 3.1:** 1-40 EVEN
- **Lesson 3.2:** 2-62 EVEN

# Base Metric Unit (see p. 125)

- **US is the only non-metric industrialized nation in the world!**

Base Unit	SI* Abbreviation	For Measuring
<b>meter</b>	<b>m</b>	<b>length</b>
kilogram	kg	mass
second	s	time
ampere	A	electric current
kelvin	K	temperature
candela	cd	light intensity
mole	mol	molecular substance

\* SI is abbreviation for International System.



# SI Prefixes (like our decimal system)

Multiple	Power of 10	Prefix	Prefix Symbol
1,000,000,000,000	$10^{12}$	tera-	T
1,000,000,000	$10^9$	giga-	G
1,000,000	$10^6$	mega-	M
1,000	$10^3$	kilo-	k
100	$10^2$	hecto-	h
10	$10^1$	deca-	da
0.1	$10^{-1}$	deci-	d
0.01	$10^{-2}$	centi-	c
0.001	$10^{-3}$	milli-	m
0.000001	$10^{-6}$	micro-	$\mu$
0.000000001	$10^{-9}$	nano-	n
0.000000000001	$10^{-12}$	pico-	p

# Practice

- Write the SI Abbreviation for 45 kilometers.
  
- Write the SI Unit for 50 mg.

# SI (Metric) Length

Get a  
“Meter Stick”

- **SI (Metric) unit of length is the meter (m).**

Multiple	Prefix	Prefix Symbol
1,000	kilo-	km
100	hecto-	hm
10	deca-	dam
1	-	<b>m</b>
0.1	deci-	dm
0.01	centi-	cm
0.001	milli-	mm
0.000001	micro-	$\mu\text{m}$
0.000000001	nano-	nm
0.000000000001	pico-	pm

# Practice – Metric Conversion

- **Change 3.6 km to meters.**
  
  
  
  
  
  
  
  
  
  
- **Change 4 m to centimeters.**