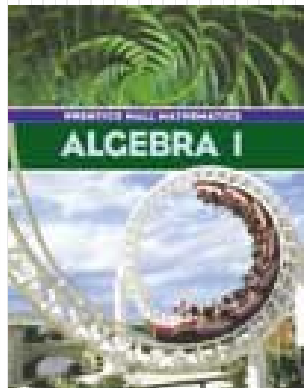




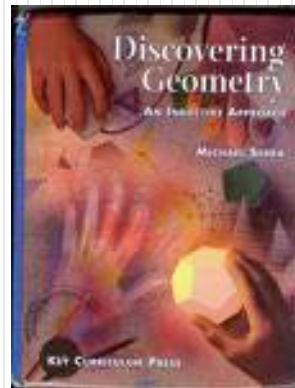
Mr. Northcutt's Math Classes Class Presentation



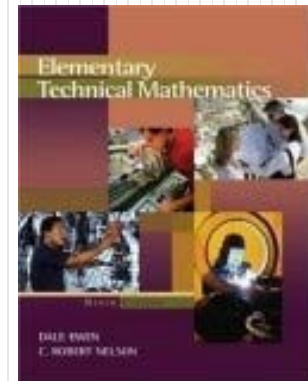
December 3, 2008 (61)



Math 1



Math 2



Applied Math



Math 1 – Daily Summary

- **Announcements**

- **QUIZ: Sections 8-1 thru 8-3 on Friday**

- **Class Objectives**

- Review HW Problems (Questions?)
- HW Expectations – Write Problem & Show Work!
- Multiplication of Exponents
 - Powers with the Same Base
 - Powers in Algebraic Expressions (base is a variable)

- **Assignment**

- **Lesson 8-3: 1-21, 71-76**



Skills Review

- Rewrite using EXPONENTS...

$$7 \cdot 7 \cdot 7 \cdot 7 \cdot 7 \cdot 7$$

$$(r + 3)(r + 3)(r + 3)$$

$$a \cdot a \cdot a \cdot b \cdot b \cdot b \cdot b$$

- Simplify...

$$-3^4$$

$$(-3)^4$$

$$(-3)^0$$

$$(-3)^{-4}$$

Multiplication of Powers (Same Base)



- Examples from yesterday...

$$2^3 \cdot 2^4 = ?$$

$$a^m \cdot a^n = \underline{\hspace{2cm}}$$

General Rule:

$$x^2 \cdot x^5 = ?$$

a is called the _____?

m & n are called _____?



More Examples

- **Simplify the following (put in Standard Form):**

$$2^2 \cdot 2^3 \cdot 2^4$$

$$x^2 \cdot x^{-3} \cdot x^4$$

$$2y^2 \cdot 3y^4 \cdot 2x^{-4}$$



Now for a Challenge...

- **Simplify the following (put in Standard Form):**

$$\frac{1}{b^2 \cdot b^{-4}}$$

$$3^n \cdot 3^{n+2} \cdot 3$$

$$(x - y)^2 \cdot (x - y)^{-3}$$



Math 2 – Daily Summary

- **Announcements**

- **RETEST: Chapter 5 + Polynomials on Friday (Last Chance!)**
 - I am available for help before & after school!

- **Class Objectives**

- Multiplication & Division of Polynomials
- Equations of Lines
 - Slope-Intercept Form
- Solution of Systems of Equations
 - Substitution & Elimination

- **Assignment**

- **Worksheet:** Polynomial Multiplication & Division
- **Sample Test** (Due Friday)

Some Advice...

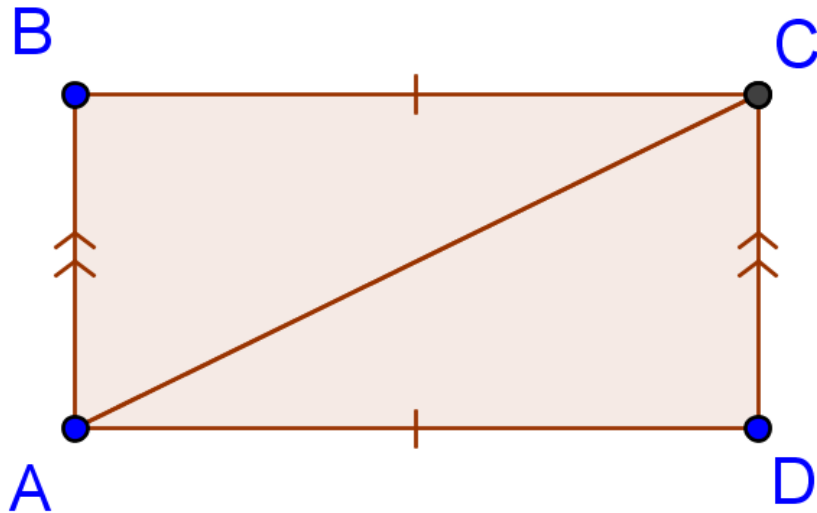


You need to have a **GOOD**
REASON for anything you
do!



STOP Guessing...**Ask**
Questions!

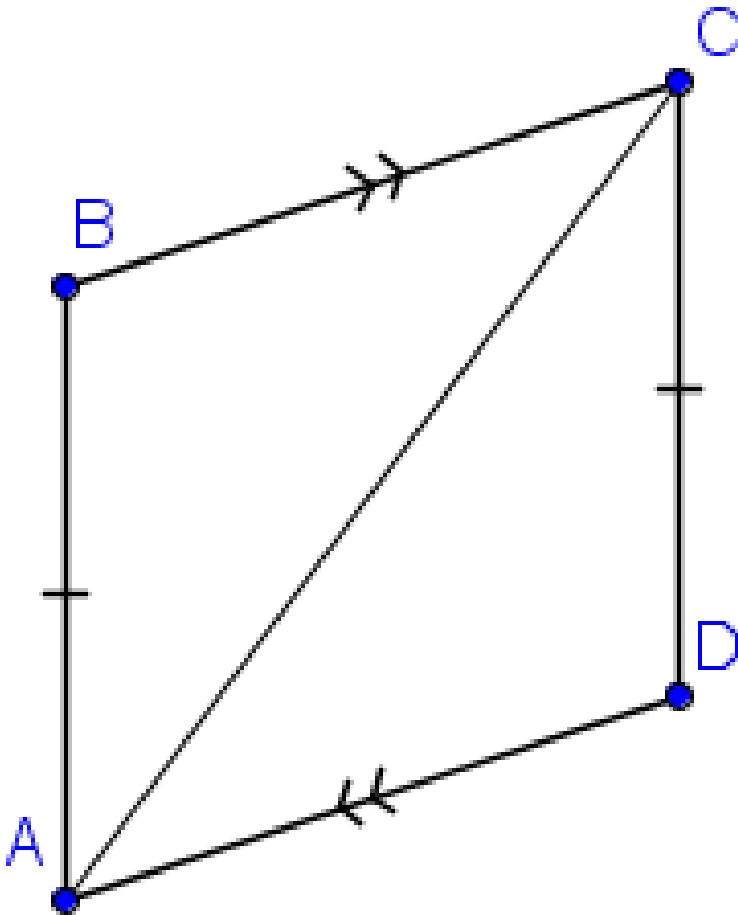
Problem #15 (4th Period Only)



$$\triangle ABC \cong \triangle \underline{\hspace{2cm}}$$

Conjecture =

Triangle Congruence?



$$\triangle ABC \cong \triangle \underline{\hspace{2cm}}$$

Conjecture =



Applied Math – Daily Summary

- **Announcements**

- Bridge Building Project This Week
 - Competition on Friday!
 - Project Write-up Due on Monday.

- **Class Objectives**

- Continue Bridge Construction

- **Assignment**

- Bridge Work



Bridge Building Teams

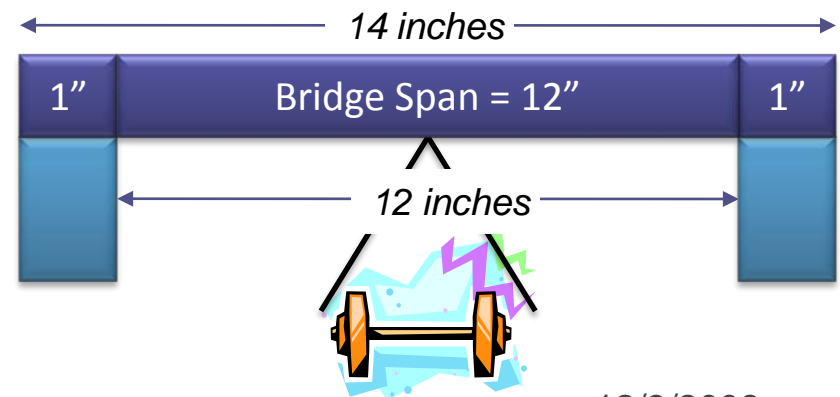
1. **Tucker & Connor**
2. **Ellie & Cecilly**
3. **Kyle & Mitchell**
4. **Sam & Augusta**
5. **Matt & Danielle**
6. **Justin & Mike**



Bridge Guidelines

- **Minimum Requirements**

- Only use popsicle sticks and glue
- Minimum of a 12 inch span. Must include at least 1 inch on either end to support the bridge.
- Minimum of 1 inch width.
- Maximum of 100 popsicle sticks
- No cutting or breaking of popsicle sticks
- Weight will be hung from the CENTER OF THE BRIDGE ON DECK (where car would be).





Project Scoring Rubric

- **Documented Design (20%)**
 - Sketch of Bridge – What are your plans?
 - Rationale for Design – Why are you using the design?
 - Confirmation of Materials – Do you have enough?
- **Quality of Construction (30%)**
 - Assessment by teacher and peers
- **Use of Time During Class (30%)**
 - Assessment by teacher
- **Results (Efficiency) (20%)**
 - Results of Weight Test

$$\text{Efficiency} = \frac{\text{Total Load (kg)}}{\text{Bridge Weight (kg)}}$$