

# Mr. Northcutt's Math Classes Class Presentation

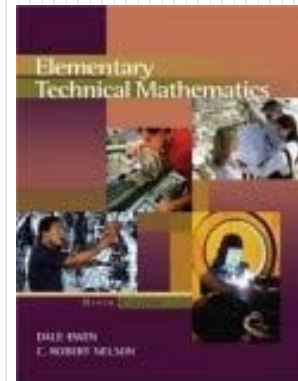
Monday, September 29, 2008 (19)



Math 1



Math 2



Applied Math

# Math 1 – Daily Summary

- **Announcements**

- Chapter 1 Test: Tomorrow

- **Class Objectives**

- Chapter 1 Review

- Variables, Expressions and Equations
- Simplification: Order of Operations, Distributive Property
- Operations (+, -,  $\times$ ,  $\div$ ) with Numbers (Integer, Fraction, Decimal)
- Graphing Data in Coordinate Plane
- Number Systems/Sets (Natural thru Real)

- **Assignment**

- Chapter Test (p. 70): 1-12, 15-26, 28-29, 31-33, 36

# Variables, Expression and Equations

- 1. The sum of 5 and 3 times a number.**
- 2. The quotient of 7 and the quantity 5 times a number.**

# of Books Purchased	Total Cost of Books
2	\$14.00
4	\$28.00
6	\$42.00

# Simplify – Order of Operations

$$\frac{|2 - 3(4 - 6)|}{4}$$

$$\left(\frac{1}{2}\right)^2 + \frac{1}{4} \times \frac{4}{3}$$

# Simplify – Dist. Property & Like Terms

$$9m - 5m + 3$$

$$(6 - 3m)(-3)$$

$$2(4x - 3) - 3(2x - 2)$$

# Graphing Data

- **Graph & Name Quadrant/Axis:**

$(0, 3)$

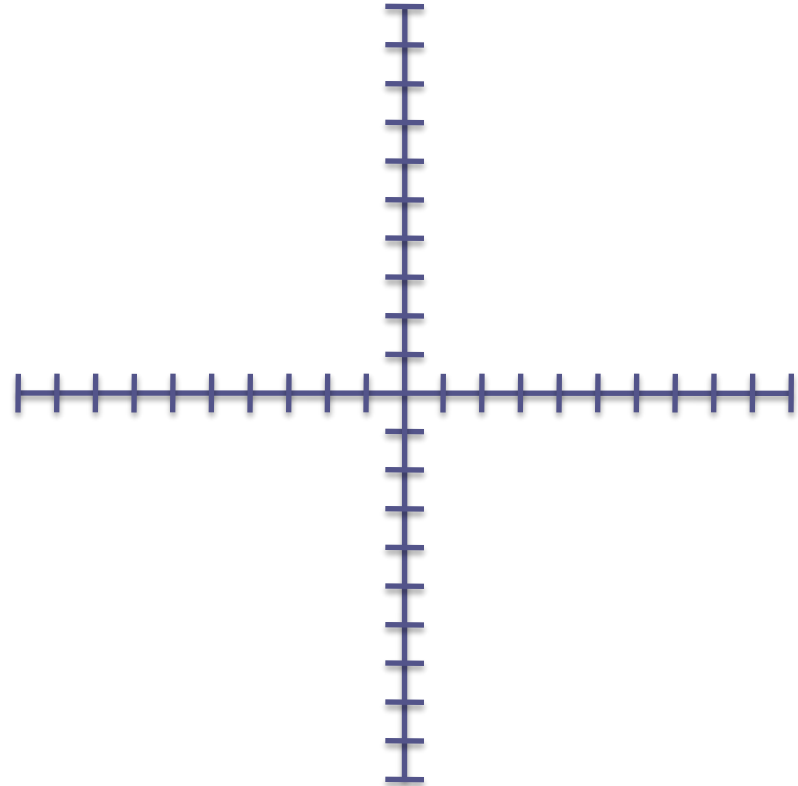
$(5, 3)$

$(-3, -3)$

$(-4, 6)$

$(-4, 0)$

$(0, 0)$



# Number Systems/Sets

- **Specify a number that belongs to each set of numbers:**
  - Natural
  - Whole
  - Integer
  - Rational
  - Irrational
  - Real

# Math 2 – Daily Summary

- **Announcements**

- Chapter 2 Test on Friday

- **Class Objectives**

- Quiz: 2.1 thru 2.6
  - HW Check 2.6 and 2.7
  - Catch-up Time or Logic Games on Computer

- **Assignment**

- No HW



# Applied Math – Daily Summary

- **Announcements**

- Chapter 1 Test on Wednesday (1.1 thru 1.14)

- **Class Objectives**

- Quiz Review
- Percentage
  - (“per Hundred”)
  - Base, Rate, and Part
  - Percent Increase/Decrease

- **Assignment**

- **Lesson 1.13:** 5-80 (by 5), 81
- **Lesson 1.14:** 2, 4, 6, 7, 10, 13, 28, 40, 41, 48

# Quiz Review

- **Scores**

- Average = (29) 72.5%
- High = (35) 87.5%
- Low = (19) 47.5%

- **Biggest Challenges**

- Showing Work/Accuracy/Readability
- Fractions (#1, #2, #4)
- Dimensional Analysis/Conversion (#8, #10)
- Order of Operations (#1, #3)
- Rounding (Significant Digits) (#5)
- Units of Measure (Various)

# Percentage

- Percent means the number of parts per 100 parts.

- **Percent to Decimal** (decimal left two places)

$$75\% = \frac{75}{100} = 0.75$$

$$6.8\% = \frac{6.8}{100} = 0.068$$

- **Decimal to Percent** (decimal right two places)

$$0.45 = \frac{45}{100} = 45\%$$

$$0.195 = \frac{19.5}{100} = 19.5\%$$

# Percentage

- **Fraction to Percent** (fraction to decimal to percent)

$$\frac{3}{5} = 0.60 = \frac{60}{100} = 60\%$$

$$\frac{5}{6} = 0.83\overline{3} = 0.83\frac{2}{6} = 0.83\frac{1}{3} = 83\frac{1}{3}\%$$

- **Percent to Fraction** (percent to decimal to fraction)

$$215\% = 2.15 = 2\frac{15}{100} = 2\frac{3}{20}$$

$$83\frac{1}{3}\% = \frac{250}{3}\% = \frac{250}{3} \cdot \frac{1}{100} = \frac{5}{6}$$

# Percent: Base, Part and Rate

- **P = Part (Amount)**
- **B = Base (Total)**
- **R = Rate (Percent)**

$$P = B \cdot R$$

- **Given: 25% of \$80 is \$20. Identify P, B, and R.**

- P = \_\_\_\_\_
- B = \_\_\_\_\_
- R = \_\_\_\_\_

# Percent: Base, Part and Rate

- **Aluminum is 12% of the mass of a given car. This car has 186 kg of aluminum in it. What is the total mass of the car?**

# Percent: (% Change)

- **Tom's hourly wages changed from \$18.40 to \$19.55. Find the percent increase in his wages.**

$$\text{Percent Change} = \frac{\text{the Change}}{\text{the Original Value}} \times 100\%$$