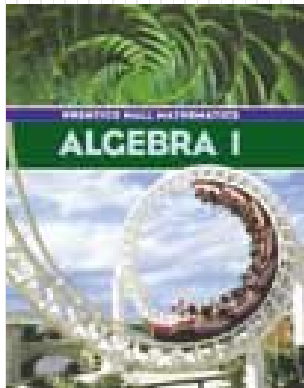


Mr. Northcutt's Math Classes Class Presentation

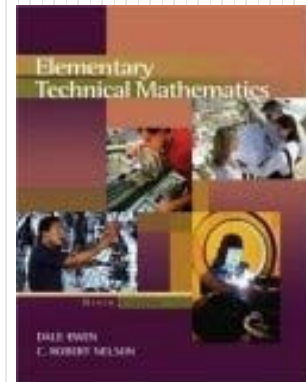
April 29, 2009 (148)



Math 1



Math 2



Applied Math



Math 1 – Daily Summary

- **Announcements**
 - **QUIZ: Sections 10-1 thru 10-3 Tomorrow**
- **Class Objectives – What you should learn today?**
 - Review: Graphing Quadratic Equations & Inequalities
- **Assignment**
 - **Worksheet: Sample Quiz**



Math 2 – Daily Summary

- **Announcements**

- **TEST: Chapter 12 (Similarity) Tomorrow**

- **Class Objectives – What you should learn today?**

- Review: Proportion with Area and Volume (HW Problems)
- Review: Similar Polygons & Triangles

- **Assignment**

- **Chapter Review (pg. 634): 7-11, 14-16, 18-26**

Scaling Relationship to Area & Volume

- **RATIO of Side/Dimension to Area/Volume is the Key!**

Area

$$\frac{A_1}{A_2} = \left(\frac{s_1}{s_2} \right)^2$$

Volume

$$\frac{V_1}{V_2} = \left(\frac{s_1}{s_2} \right)^3$$



Applied Math – Daily Summary

- **Announcements**
 - None
- **Class Objectives – What you should learn today!**
 - “Spread” of Data
 - Min. & Max.
 - Range
 - Standard Deviation
- **Assignment**
 - **Section 15.8: 12; [MS Excel: Baseball Data](#)**



Describing How Data Varies

- **Range = Min - Max** **{2, 3, 5, 7, 7, 5, 4, 9}**
 - Min = 2
 - Max = 9
 - Range = $(9 - 2) = 7$
- **“Sample” Standard Deviation (Variation from the Mean)**

$$s = \sqrt{\frac{\sum (\text{measurement} - \text{mean})^2}{\# \text{measurements} - 1}}$$



Calculating Standard Deviation

- Find s for the sets $\{4,5,5,6\}$.
1. Mean = 5
 2. $\{(Measurement - Mean)^2\} = \{1,0,0,1\}$
 3. Find s (this data is “close” to the mean - “tight”):

$$s = \sqrt{\frac{\sum (measurement - mean)^2}{\#measurements - 1}} = \sqrt{\frac{2}{3}} = 0.82$$