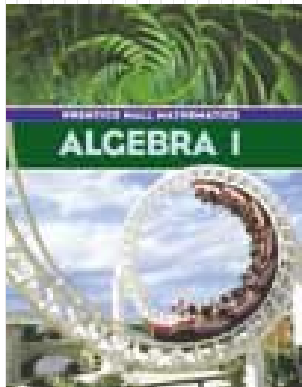
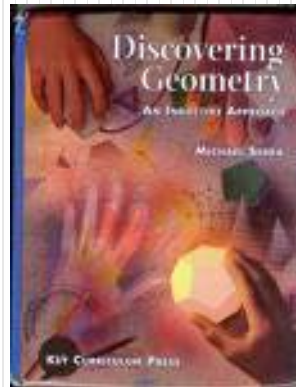


# Mr. Northcutt's Math Classes Class Presentation

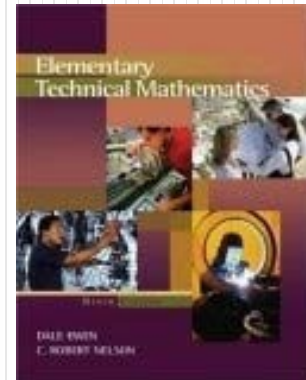
Wednesday, October 15, 2008 (31)



Math 1



Math 2



Applied Math

# Math 1 – Daily Summary

- **Announcements**

- **No School Thursday or Friday...Enjoy the break!**

- **Class Objectives**

- Problem Solving with Equations
  - Distance, Rate and Time

- **Assignment**

- **Lesson 2-5: 10-15, 21-27**

# HW Solutions – Section 2.5 (1)

**1:** 9 in

**2:** 2 in by 10 in

**3:** 9 cm by 18 cm

**4:** 5 yd by 13 yd

**5:** C

**6:** 58, 60

**7:** 27, 29

**8:** 304, 305, 306

**9:** -148, -150

**18:** 74, 76, 78, 80

**19:** -27, -28, -31

**20:**  $10 \frac{5}{6}$  ft or 10 ft 10 in

**31:** 41, 42, 43

# Distance-Rate-Time Problems

- The relationship between distance-rate-time is:

$$r \cdot t = d$$

- **2 VOLUNTEERS** with time displayed on the whiteboard:
  - 1<sup>st</sup>: Start at 0, take 1 step every 5 seconds
  - 2<sup>nd</sup>: Start at 20, take 2 steps every 5 seconds
- What are the rates of the two students (steps/second)?
- When will the 2<sup>nd</sup> student overtake the 1<sup>st</sup> student?

# Same-Direction Travel

- One train leaves a station at 1pm travelling at 60 mph. A second high-speed train leaves the same station an hour later travelling at 96 mph. The second train is on a parallel track to the first train. In how many hours will the second train catch up with the first train?
  - **Hint:** Let  $t$  represent the time the 1<sup>st</sup> train travels.

Train	Rate	×	Time	=	Distance
1	60 mph				
2	96 mph				

$$r \cdot t = d$$

When Train 2 catches up with Train 1 what is true about the distance the trains have travelled?

# Round-Trip Travel

- **Gavin drives to the city to buy software at a computer store. Due to traffic going to the city he averages only 15 mph. While driving home, he averages 35 mph. If the total travel time is 2 hours, how long did it take him to drive to the store?**
  - **Hint:** Let **t** represent the time for Gavin to drive to the store.

To/From	Rate	×	Time	=	Distance
To Store	15 mph				
From Store	35 mph				

How can we represent the time to drive from store to home in terms of the variable **t**?

$$r \cdot t = d$$

# Opposite Direction Travel

- Alonna and Tori leave their home traveling in opposite directions on a straight road. Tori drives 15 mph faster than Alonna. After 3 hours, they are 225 miles apart. **Find Alonna and Tori's rate (speed)?**
  - Hint:** Let  $r$  represent Alonna's rate (speed).

To/From	Rate	$\times$	Time	$=$	Distance
Alonna			3		
Tori			3		

How can we represent Tori's rate in terms of  $r$ ?

$$r \cdot t = d$$

# Math 2 – Daily Summary

- **Announcements**

- No School Thursday or Friday...Enjoy the break!

- **Class Objectives**

- Lesson 4.3 HW Answer Check
- Quiz: Lesson 4.1 – 4.3
- After Completing Quiz:
  - HW Check
  - HW Catch-up
  - Computers: If ALL HW Complete

- **Assignment**

- No HW



# HW Solutions – Lesson 4.3

**1:** Neg., Undef., Pos., 0

**3:** (-9, 1.5)

**5:** (-6, 44)

**7:** Any point (3x, -4x)

**9:** No. Same order x & y

**11:**  $y = (2/3)x + 6$

**13:**  $-5/2$

**15:**  $3/2$

**17:**  $1/7$

**19:** Undefined

**21:** 1

**23:**  $-12/13$

**25:**  $(y-3)/2$

**27:** 0, 1, 0,  $8/3$

**29:**  $2/3$ , 0, 3, (9,6), (16,6),  
(7,0), 3,  $2/3$ , 0

**31:**  $66 \frac{2}{3}$  mph

**33:** 6 mph, 4:35, 36 mph,  
15 min then 20 min

**35:**  $57^\circ$ ,  $123^\circ$

**38:**  $45^\circ$ , yes, yes, yes

**39:** 0, snow

# Applied Math – Daily Summary

- **Announcements**

- No School Thursday or Friday...Enjoy the break!

- **Class Objectives**

- Chapter 3 Retest (Metric System)

- **Assignment**

- No HW