

Pre-Algebra
December 5 - 9

- Monday, December 5, 2011
 - SW work on Study Island
 - Grade 7
 - Fractions, Decimals, and Percents: Read over lesson and complete 15 questions with a score of 70% or better
- Complete Study Island assignment
 - Read and take notes on pages 239-241
 - Begin Homework: Page 770; Lesson 5-1; 2-20 even/Lesson 5-2; 2-24 even

- Tuesday, December 6, 2011
 - SW multiply positive and negative fractions and use dimensional analysis to solve problems
- SW complete a review quiz upon entering the classroom
 - CW review student notes on multiplying rational numbers and work through various examples together
 - SW work on class work assignment with a partner
 - SW begin homework if time permits

Multiplying Fractions:

Steps: 1) Cross reduce Mixed Fraction
 2) Multiply 1) Make it an
 3) Simplify improper fraction

$$1. \frac{3}{4} \cdot \frac{-9}{12} = \frac{1 \cdot 9}{4 \cdot 4} = -\frac{9}{16} \quad \frac{2}{8} \cdot \frac{2}{11} = \frac{2}{11}$$

$$2. \frac{6}{9} \cdot \frac{3}{11} = \frac{6 \cdot 1}{3 \cdot 11} = \frac{6 \div 3}{33 \div 3} = \frac{2}{11}$$

$$3. \frac{3}{8} \cdot \frac{2}{3} = \frac{9 \cdot 1}{8 \cdot 1} = \frac{63}{8} = 7 \frac{7}{8}$$

8 · 7 = 56

Multiplying Algebraic Fractions. Contains letter

Steps: 1) Factor out the variables
Follow Previous Rules

$$1. \frac{x^2}{3y} \cdot \frac{z}{2x} = \frac{x \cdot x}{3 \cdot y} \cdot \frac{z}{2 \cdot x} = \frac{x \cdot 1 \cdot z}{3 \cdot y \cdot 2} = \frac{xz}{6y}$$

$$2. \frac{7}{r^2} \cdot \frac{rs^2}{10} = \frac{7}{1 \cdot r \cdot r} \cdot \frac{r \cdot s \cdot s}{10} = \frac{7 \cdot 1 \cdot s \cdot s}{1 \cdot r \cdot r \cdot 10} = \frac{7s^2}{10r}$$

Dimensional Analysis.

use units of measurement as factor.

- The record for the fastest land car speed is about 760 miles per hour. How far would the car travel in 1/4 hour?

$$\frac{760 \text{ miles}}{1 \text{ hr}} \cdot \frac{1}{4} \text{ hr} = \frac{760 \cdot 1}{1 \cdot 4} = \frac{760}{4} = 190 \text{ miles}$$
- The track at Cole's school is 1/4 mile around. If Cole runs one lap in two minutes, how far (in miles) does he run in 30 minutes?

$$\frac{1}{4} \text{ mile} \cdot 30 = 7.5 \text{ miles}$$

- Class work: Page 242; 1-17 odd
- Homework: Page 242-243; 19-37 every third, 38-44 even

- Wednesday, December 7, 2011
 - SW review concepts for scientific notation, writing fractions as decimals, rational numbers, and multiplying rational numbers
1. SW complete a review quiz upon entering the classroom
 2. CW review student notes from the last 2 weeks
 3. SW work on review packet of Lessons 4-7, 5-1, 5-2, and 5-3 even problems in class
 4. SW begin homework if time permits-Odd problems from packet

- Thursday, December 8, 2011
 - SW have the entire class period to complete Test 7 over lessons 4-7, 5-1, 5-2, 5-3
1. Homework: work on projects due December 12.
 2. Read and take notes on pages 245-247

- Friday, December 9, 2011
- SW review various concepts for the CRT test.
- CW review packet completed previous week, working through all of the problems whole group.
- Homework: Work on project due December 12.



