

## Week 11 Pre-Algebra Assignment:

Day 1: pp. 201-202 #2-36 even  
Day 2: pp. 205-206 #1-12, 13-23 odd, 25-30  
Day 3: pp. 213-214 #1-37 omit #24  
Day 4: pp. 216-217 #1-12, 16-42 even, 44-49  
Day 5: Chapter 5 test

### Notes on Assignment:

Page 201-202: (#2-36 even)

#### **Work to show:**

#2-6: Write the ratio as a fraction and then simplify.  
#8-12: Write the simplified ratio using the word "to."  
#14-18: Write the ratio as a fraction and then simplify.  
#20-22: Write the simplified ratio using the word "to."  
#24-30: Write the ratio, and then divide it out into either a decimal or whole number.  
#32-36: Show work needed.

#8-12, #20-22: I suggest that you write these as a fraction first and then simplify the fraction. Then take the simplified fraction and rewrite it as a ratio using the word "to."

#24: To find acres per day, think of the label as acres/day. This tells you how to divide. That means divide 270 by 3.

#34: To find the average, add the 3 yardages together and divide by 3.

#36: This is an average. Divide.

Pages 205-206: (#1-12, 13-23 odd, 25-30)

#### **Work to show:**

#1-4: Answer as directed.  
#5-12: Write the proportion.  
#13-23: Write the proportion using fractions, show loops, and solve.

#5: Think "This is to this, as this is to this." For this problem it's "tasks are to hours, as tasks are to hours." That looks like this:  $\frac{2 \text{ tasks}}{5 \text{ hours}} = \frac{n \text{ tasks}}{7 \text{ hours}}$ . Now you get:

$$\frac{2}{5} = \frac{n}{7}$$

$$5n = 14$$

$$\frac{5n}{5} = \frac{14}{5}$$

$$n = \frac{14}{5}$$

The answer is  $3\frac{3}{4}$  tasks.

#17: The numerators are 4 and 408 of the fractions in this proportion.

#21: The number listed first in each ratio is the numerator.

#25: Set up a ratio of silver to red, which equals 5:2.

#28-30: If you look at the loops, it won't change the equation if you switch the numbers of the loops around. For example, in  $\frac{6}{4} = \frac{3}{2}$  is the same as  $\frac{2}{4} = \frac{3}{6}$ . We just switch the 6 and 2 around.

Pages 213-214: (#1-37 omit #24)

**Work to show:**

#All Problems: Answers only

#11-22: Simplify the radical first, then look at the number. Remember that to be a rational number you must be able to write the number as a simple fraction. If not, it's irrational.

#25-37: Refer to the properties on page 212.

Pages 216-217: (#1-12, 16-42 even, 42-49)

**Work to show:**

#1-8: Show any work needed.

#9-12: Write the problem, draw loops, and show cross products.

#14: 3 answers

#16-20: Show the long division.

#22-24: Show the process.

#26-30: Show any work needed.

#32-34: Show the division calculation.

#36-42: Write the proportion using fractions, show loops, and solve.

#46-50: Write the equation and show the steps needed to solve it.

#51-55: Show factor trees.

#24: Find the fraction and then put the negative on it. Don't include the negative in your process.

#32-34: Remember that the label tells you what to divide. For example, if finding miles/gallon, divide miles by gallons.

#42: Remember that in your proportion put the same categories on the top. In this problem you have "attempts" and you have "made." If you put the number for attempts on the top of one fraction, make sure it is on the top of the other fraction.

#48-49: Refer to the properties on page 212.

### Chapter 5 Test:

What's on the test:

- Rename fractions in lowest terms.
- Rename mixed numbers as improper fractions.
- Rename fractions as mixed numbers.
- Name the property illustrated.
- Convert between fractions and decimals.
- Compare numbers.
- Solve proportions.
- Name the sets of numbers on a Venn diagram.