

## **Week 22 Pre-Algebra Assignment:**

Day 1: pp. 415-416 #1-10, 12-30 even, 31-39

Day 2: pp. 422 #2-12 even, 14-35

Day 3: pp. 427-428 #2-24 even, 31-40

Day 4: p. 417 #45-53 odd, p. 424 #41-45, p. 428 #46-54 even

Day 5: worksheet

### **Notes on Assignment:**

Pages 415-416 (#1-10, 12-30 even, 31-39)

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

#1-10: Answers

#12-16: Bar graphs

#18-22: Line graphs

#24-26: Calculations

#28-30: Pie charts

#31-39: Answers only

General Notes for this section – Students received a handout in class with examples for bar graphs, line graphs, and circle graphs. Please refer to the handout for these problems.

#1-10: Refer to the chart in the last page of your handout (or on page 416)

#12-22: Use a ruler to make all of your lines and don't forget labels and titles.

#28-30: Use a compass to draw your circle or trace any round object. You will need your protractor for the angle measures.

#31-39: Refer to the chart in the last page of your handout (or on page 416)

Page 422 (#2-12 even, 14-35)

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

#2-6: Tree diagrams

#8-12: Show any work needed.

#14-35: Show the boxes like we did in class, then the product.

#2-6: You can abbreviate as you make these. For example, in #2 for mayor use  $m_1, m_2,$  and  $m_3$ .

#14: Draw the boxes and then the product for all of these problems, like this:

$$\boxed{10} \boxed{2} = 20$$

#22: The wording just means that you need to pick one sandwich, one bag of chips, and one drink.

### Pages 427-428 (#2-24 even, 31-40)

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

#2-12: Show work.

#14-24, 31-36: Write the permutation notation, the factorial notation, and any work needed to find the answer.

#37-40: Write the permutation notation only. Do not calculate.

#2-12: Remember what factorial notation means. An example is  $4! = 4 \cdot 3 \cdot 2 \cdot 1 = 24$ .

#8: The 4 is not a factorial. Calculate the 5! First.

#10: Calculate each factorial and then multiply those products together.

#14: Show work like this:

$${}_4P_4 = \frac{4!}{(4-4)!} = \frac{4!}{0!} = \frac{4!}{1} = 24$$

#20: When you get the factorial equation written, make sure to be careful as you cancel:

$${}_6P_3 = \frac{6!}{(6-3)!} = \frac{6!}{3!} = \frac{6 \cdot 5 \cdot 4 \cdot \cancel{3} \cdot \cancel{2} \cdot \cancel{1}}{\cancel{3} \cdot \cancel{2} \cdot \cancel{1}} = 6 \cdot 5 \cdot 4 = 120$$

### Page 417 (#45-53 odd)

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

#45-49: Write the expression, fill in for the variables, and calculate the answer.

#50-53: Show the steps to solve.

#45-46: Remember to get a common denominator before adding or subtracting fractions.

#47: Do not use a calculator.

Page 424 (#41-45)

**Work to show:**

#41-45: Show work

#41, 44, 45: Remember to use cross canceling to make the multiplication easier!

#42, 43: No calculators!

Page 428 ( #46-54 even)

**Work to show:**

#46-48: Show any work needed

#50-52: 5-step word problems

#50: Remember that we use  $n$  and  $n+1$  for two consecutive integers.

#52: Remember that we use  $n$  and  $n+2$  for two consecutive odd integers.

Worksheet

General Notes: This is a worksheet that reviews the concepts from this week. If you need help, refer back to the general instructions given in the assignment notes over the past couple of weeks, or look in your textbook.