Name:_____

Weekly Math Mania

Topic: Proportional Relationships

Date Due: Monday, August 31, 2015

Standards: CCSS.Math.Content.7.RP.A.2

Recognize and represent proportional relationships between quantities

CCSS.Math.Content.7.RP.A.2a

Decide whether two quantities are in a proportional relationship, e.g. by testing for equivalent ratios in a table

CCSS.Math.Content.7.RP.A.2b

Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.

Family Engagement You and a family member need to complete the "I Need a Larger Recipe!" Following the instructions on for this activity. Please make sure your family answers the last question.	**Words at Work** Complete the Frayer Model for each of the words below. Proportional Equivalent Ratios Proportion Cross Products
Independent Practice Page 37 #1-7 Page 59 #1-11 Write your answers in the book, and then tear it out. Staple it to this packet.	**Math in the Real World** Page #24 Write your answers in the book, and then transfer them into the packet on the page labeled "Math in the Real World."
Choose either the online activity or the textbook activity.	
Online Activity Go to the website http://www.mathplayground.com/ASB_DirtBikeProportions.html and plat Dirt Bike Proportions. Write down any problems you missed, and write the correct solution for the problem on the page labeled "Online Activity."	**Textbook Activity** Do Page 53, the Hands-On Activity, steps 1-2. Write your answers to problems 1-6 in the book, and tear it out. Staple it to this packet.

I NEED A LARGER RECIPE!

You have found your favorite recipe and want to bring it to class. The problem is that your recipe doesn't serve enough people. Use proportions to increase the recipe to serve all of the people in your 7th grade Mathematics class, including your teacher. Make enough for one serving per person.

WHAT YOU'LL NEED:

1. Choose one recipe from the internet, cookbook, magazine, or from home.
2. The recipe must have AT LEAST 8 ingredients, must have the number of portions it makes, and it must serve greater than 4 people, but less than 10 people.
3. Use proportions to increase the recipe to serve the number of people in your Math class, including your teacher (1 serving per person).
4. Fill out the table. AN example is given on the first row. (EX: If the recipe uses 1 cup of sugar, and the recipe serves 8, the ratio for one serving equals 1/8 cup sugar. (THINK UNIT RATES)
5. Show all of your work to solve the proportions on the back of the table.

Question for family member: Have you ever had to scale a recipe up or down? If so, what were you making? Who was it for? Are proportions useful in the kitchen? Please answer in the space below.

DEFINITION	CHARACTERISTICS

Proportional

EXAMPLES/MODELS	NON-EXAMPLES

DEFINITION	CHARACTERISTICS

Equivalent Ratios

EXAMPLES/MODELS	NON-EXAMPLES

DEFINITION	CHARACTERISTICS

Proportion

EXAMPLES/MODELS	NON-EXAMPLES

DEFINITION	CHARACTERISTICS

Cross Products

EXAMPLES/MODELS	NON-EXAMPLES

Math in the Real World

(Please write out the problem, show all of your work, and box your answer. (Please be neat and organized.)

Online or Textbook Activity

Please clarify which one you did before filling out this page. If you did the textbook activity, just tear out the page and staple it to this packet

(Please write out the problem, show all of your work, and box your answer. (Please be neat and organized.)