## Weekly Math Mania

Topic: Proportional Relationships (Graphing Focus)

Date Due: Friday, October 1, 2015

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

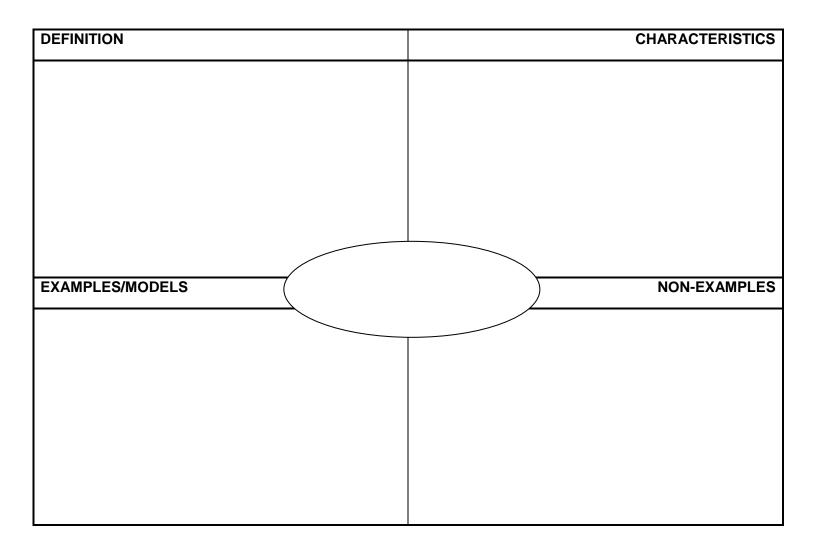
Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin.

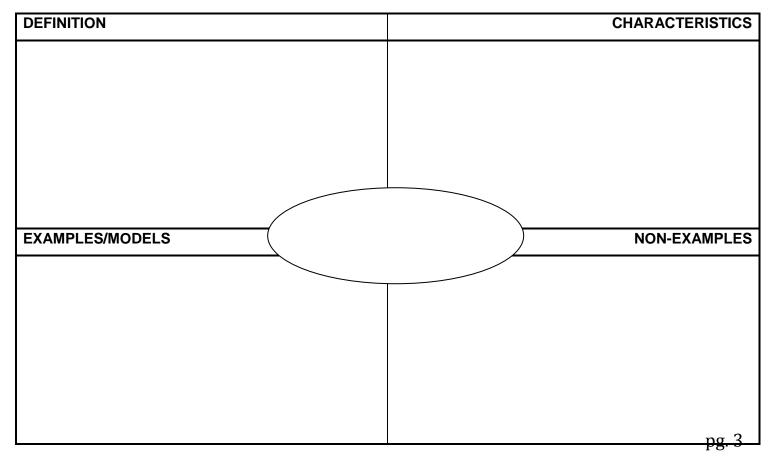
CCSS.Math.Content.7.RP.A.2b

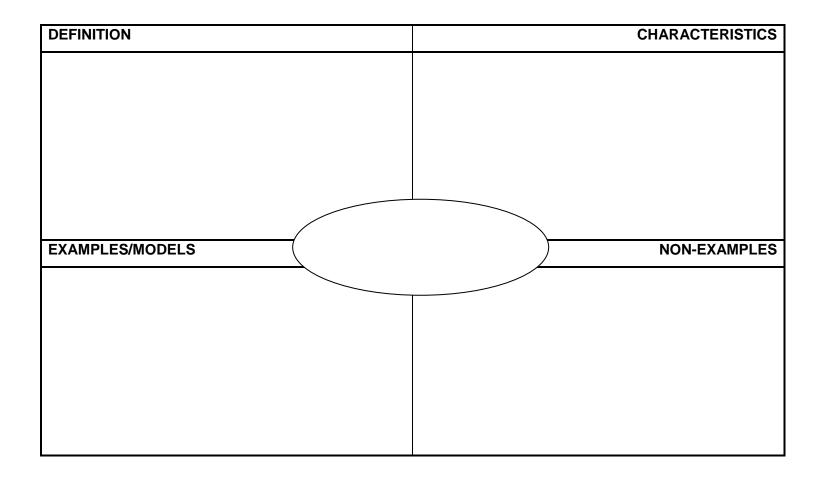
Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.

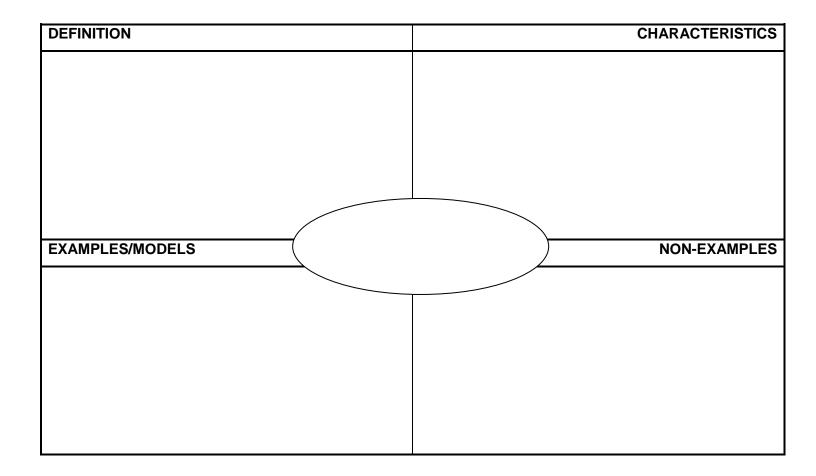
Family Engagement	Words at Work Slope
Explain to your family member how to determine if a	Direct Variation
linear relationship is a direction variation from an	Constant of Proportionality
equation, a table and a graph. Write out your	
explanation and their reaction.	
Independent Practice	Math in the Real World
Page 77-78 problems 1-4	Complete the Real World Link "Recycling" on pages 73-
Page 85-86 problems 1-8	74. Answer questions 1-3. Please do not tear this page
Please tear these pages out and staple it to the	out, I have provided a copy of it in this packet.
packet.	
Choose either the online activity or the textbook activity.	
Online Activity	Textbook Activity
Must do the Textbook Activity 😊	
$\rightarrow$	Complete the 21 <sup>st</sup> Century Career in Engineering on
	page 89-90. Answer the two questions and the Career
	Project. Tear it out and staple it to this packet.

Family Engagement









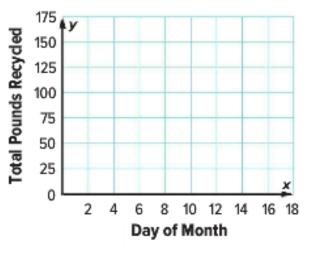
## Math in the Real World



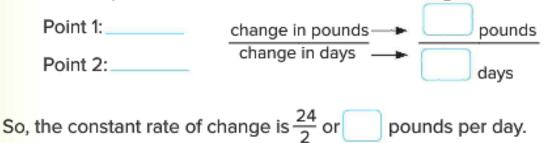
**Recycling** Hero Comics prints on recycled paper. The table shows the total number of pounds of recycled paper that has been used each day during the month.

Day of Month	Total Recycled (lbs)
3	36
5	60
6	72
7	84
12	144

1. Graph the ordered pairs on the coordinate plane.



- 2. Explain why the graph is linear.
- 3. Use two points to find the constant rate of change.



## Textbook Activity

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