# Weekly $\mathfrak{M a t h}$ Manooa 

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 <br> Explain to your family member how to determine if a linear relationship is a direction variation from an equation, a table and a graph. Write out your explanation and their reaction. | Words at Work Slope Direct Variation Constant of Proportionality |
| :---: | :---: |
| Independent Practice <br> Page 77-78 problems 1-4 <br> Page 85-86 problems 1-8 <br> Please tear these pages out and staple it to the packet. | Math in the Real World <br> Complete the Real World Link "Recycling" on pages 7374. Answer questions 1-3. Please do not tear this page out, I have provided a copy of it in this packet. |
| Choose either the online activity or the textbook activity. |  |
| Online Activity <br> Must do the Textbook Activity | Textbook Activity <br> Complete the $21^{\text {st }}$ 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
pg. 2

| DEFINITION |  | CHARACTERISTICS |
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| EXAMPLES/MODELS |  |  |


| DEFINITION |  | CHARACTERISTICS |
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## Math in the Real World

## Real-World Link

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 <br> Month | Total Recycled <br> (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. $\qquad$
$\qquad$
3. Use two points to find the constant rate of change.

Point 1:
Point 2: $\qquad$

So, the constant rate of change is $\frac{24}{2}$ or $\square$ pounds per day.

## Textbook Activity

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

