Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date Due:\_\_\_\_\_\_\_\_\_\_

Solving Proportions Study Guide:

You will need computer access to watch the video. You will need this study guide, a pencil, and your calculator. Use the study guide for your notes. Then go to the webpage for our class and click the link for the Solving Proportions Vodcast.

**Recall:** Simplifying Ratios to determine if they are proportionate:



Another way to determine if two ratios are proportionate is to see if the cross products are equal.

If the cross products are equal, the ratios are in proportion.

If the cross products are not equal then the ratios are not in proportion

**Example:** using cross-products to determine if two ratios are proportionate:



**Determine if the following ratios are in proportion:**

1. By Simplifying 2. By Cross-products

 

**Please return to the vodcast.**

Example: Solving Proportions using cross products



**Solve the following proportion using cross products:**

 

Unequal Masses will balance on a fulcrum when the following is true:



Tom and Jerry are on a see saw. Tom weighs 68 lbs and is 7 feet from the fulcrum. Jerry is 5 feet from the fulcrum. How much does Jerry weigh if they are balanced on the fulcrum?

(hint: draw a picture like I did in the vodcast, make Tom = Mass 1 and Jerry = Mass 2. Use the formula – plug and chug. Don’t forget the each mass and length is in the opposite ratio.)

Go to the class webpage and respond to the homework prompts and submit by 10pm the night before the due date. Bring study guide to class for the due date. Homework Done! ☺