

Proportional Reasoning

Name: _____

Directions: On this organizer, you will write down notes and answers to questions your teacher will ask you as you watch **Mathvantage #2: Proportional Reasoning**.

1. What is a direct relationship between quantities? Include an example. _____

2. What is the key to a direct proportion? _____

In the video, what activity is used to show a direct proportion? _____

If a person uses three teaspoons of sugar and six cups of milk in a recipe, how many cups of milk will he need if he increases the teaspoons of sugar from three to four? _____

3. If 75 sections represent 75,000 people, what multiplier is being used? _____

Using 75, 75,000, and the multiplier, write a proportion. _____

If $70/100 = 210/300$, what multiplier is being used? _____

If the multiplier were four, how would the proportion change? _____

If 17 is used to represent 17,000,000, what multiplier is being used? _____

Using 17, 17,000,000, and the multiplier write a proportion. _____

If **bacteria/virus = full size car/model car**, why must the virus be represented by the model car and not the full size car? _____

4. In the proportion $2/3 = n/12$, what is the value of n ? _____

Use cross products to solve the proportion $10/15 = n/6$ _____

How would you use cross products to show two ratios make a proportion? _____

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