Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block \_\_\_\_ September 23, 2016

Using Ratios Quiz

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| 1. What is a ratio? |
| 1. What is a proportion? |
| 1. Describe two situations in which you might use proportional reasoning. |

1. Write a ratio for each of the following:

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| --- | --- | --- |
| Ratio of inches to feet | Ratio of centimeters to meters | Ratio of yards to feet |

1. A poster has a height of 8 inches and a width of 5 inches. Find other dimensions of posters that are proportional to the original.

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| --- | --- |
| Poster height | Poster width |
| 24 inches |  |
|  | 35 inches |
| 20 inches |  |
|  | inches |

1. To make a particular shade of purple, you need to mix a blue and red paint in the ratio of 1 part blue to 1 part red.

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| What if you want to exactly fill a one-gallon (8-pint) container with the purple paint? How many pints of red and blue should you use? |
| By what scale factor was the 1:1 ratio multiplied to have enough of the correct shade of purple? |

1. Here is a recipe for a quart of strawberry ice cream. Suppose you wanted to make 3 gallons, or 12 quarts. Using your knowledge of proportion, how would you increase the recipe?

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| --- | --- |
| To make 1 quart | To make 3 gallons or 12 quarts |
| 2 egg yolks |  |
| can condensed milk |  |
| cup chopped strawberries |  |
| cup of sugar |  |
| cups of whipping cream |  |

1. Write a ratio for each of the following:

|  |  |  |
| --- | --- | --- |
| Ratio of nickels to dollars | Ratio of dollars to dimes | Ratio of quarters to dollars |

1. Here is a recipe for pancakes. Using your knowledge of proportion, how would you increase the recipe?

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| --- | --- | --- |
| To make 8 pancakes | To make 24 pancakes | To make 40 pancakes |
| 2 cups of Bisquick |  |  |
| 2 teaspoons of baking powder |  |  |
| 2 tablespoons of vegetable oil |  |  |
| 1 teaspoon of vanilla |  |  |
| 3 tablespoons of sugar |  |  |
| 1 cup of milk |  |  |
| 2 eggs |  |  |

*I hope you have a nice weekend!!*