



**Part A**

James doesn’t have enough time to go to the store to get ingredients! He only has ½ cup of brown sugar and needs to work around that measurement.

What factor would he have to decrease the muffin recipe by to use ½ cup of brown sugar? What operation would you use to decrease the recipe? Explain your answer.

**On the next page:** What are the new measurements for **each** ingredient? Don’t forget to show work and include **units!**

|  |  |  |
| --- | --- | --- |
| Ingredient | Measurements for 18 muffins | Measurement for \_\_\_\_ muffins |
| Flour |  |  |
| Baking Soda |  |  |
| Salt |  |  |
| Mashed bananas |  |  |
| Brown Sugar |  |  |
| Butter |  |  |
| Eggs |  |  |
| Vanilla |  |  |
| Chopped Pecans |  |  |

**Part B** A week later, James wants to try his recipe again. This time he has opportunity to buy the right amount of ingredients to serve **27** friends!

By what factor would he have to increase the muffin recipe by? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What operation would he have to use to increase the recipe?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Complete the chart below representing only part of the recipe’s ingredients:

|  |  |  |
| --- | --- | --- |
| Ingredient | Measurements for 18 muffins | Measurement for 27 muffins |
| Flour |  |  |
| Baking Soda |  |  |
| Salt |  |  |
| Mashed bananas |  |  |

**Part C:** Reflection on Mathematical Processes:

Explain the steps you would take to multiply mixed numbers:

Explain the steps you would take to divide mixed numbers:

Chapter 4 Fractional Recipe Performance Task – You will be graded based upon the following criteria: You must show all work to receive credit. **This is due 1/4/16**

Name: Class:

|  |  |  |  |
| --- | --- | --- | --- |
| **Levels** | **Mathematical Precision** | **Presentation** | **Evidence and Reasoning** |
| **Above & Beyond**  **4** | You made no errors in your calculations.  Each part of the project is complete and correct. | You go above and beyond what is required of you. You put in outstanding effort and show great understanding of the topic. Your project is very neat. | You are able to thoroughly explain how you have reached your answer and solved the given problem. You used mathematical vocabulary when explaining your answer. |
| **At the Top**  **3** | You made a few errors in your calculations.  Most parts of the project are complete and correct. | You put in the right amount of effort. And have met the appropriate standards. Your project is neat. | You are able to explain how you have reached your answer and solved the given problem. You used some mathematical vocabulary when explaining your answer. |
| **On My Way**  **2** | You made multiple errors in calculations.  Many parts of the project are incomplete. | You are on your way so don’t give up! There is somewhat of an understanding, but the topic is not clear.  Your project is not neatly presented. | You did not fully explain how you have reached your answer and solved the given problem. You used little/no mathematical vocabulary when explaining your answer. |
| **Not Yet**  **1** | You made many errors in calculations.  Most of the project is incomplete. | You are not there yet. It looks like you did not apply yourself, like I know you can.  Your project is not neatly presented. | You did not explain what you did or how you came about your reasoning through words, descriptors or pictures. |
| **Score:** |  | Glow: | Grow: |