FRACTIONS MINI-BOOK™

You are expected to write a Fractions Mini-Book™. This is essentially a small textbook written and edited by you. Please draw from your 6th grade notes, quizzes, and test for ideas. The final product should be <u>at minimum</u> 12 pages long and cover the main concept (Fractions) and sub concepts (the rules) listed below. You must also define the required math terms.

The final product should be both mathematically sound and interesting to read. You should have a character narrate your mini-book.

Main Concept: Fractions

Sub Concepts: Adding fractions

Subtracting Fractions

Multiplying fractions

Dividing fractions

**Required
Math Terms:**

Fraction	L.C.D.
Numerator	Improper Fraction
Denominator	Mixed Number
Part	
Whole	

**Optional
Math Terms:**

Sum	Reciprocal
Difference	Simplify
Product	Factor
Quotient	

SAMPLE FRACTION MINI-BOOK PAGES

GOOD sample page:

OKAY sample page:

How to Add Fractions:

When you add fractions you need to have a COMMON DENOMINATOR. (That's the number on the bottom!) To get the C.D. you should multiply the numerator and denominator by the same number to get a new fraction. Check it out!

$$\frac{2}{9} \quad \text{x 2} \qquad \frac{4}{18} \longleftarrow \text{the common denominator}$$

$$+ \frac{5}{6} \quad \text{x 3} \qquad + \frac{15}{18}$$

$$\frac{19}{18} = 1\frac{1}{18}$$

Aughh! An improper fraction!

REMEMBER: When you add just add the numerators!

Turn it into a mixed number, dude.

Pg. 4

When you add fractions you need to have a COMMON DENOMINATOR.

When the denominators are different you CANNOT add!

$$\frac{2}{9} \quad \text{x 2} \qquad \frac{4}{18}$$

$$+ \frac{5}{6} \quad \text{x 3} \qquad + \frac{15}{18}$$

$$\frac{19}{18}$$

Remember to do this every time!

Fractions Mini-Book

Grading Rubric

Project Designer: _____

Project Grader(s): _____

Total: _____

Score: _____

Skill	Exceeds Standards (5)	Above Standards (4)	Meets Standards (3)	Approaching Standards (2)	Needs Improvement (1)
Narration (Communication)	The character's explanations are clear and thorough. and Writing is creative.	The character explains each sub-concept. and Explains hints/tricks to solve the problems.	The character introduces and explains each sub-concept.	The character introduces but does *NOT* fully explain each sub-concept.	The writing is insufficient. and/or Includes incorrect information.
Example Problems (Computation)	The example problem work is *thoroughly* labeled. and Includes examples for the optional sub-concepts.	The work for each example problem is labeled. and/or The steps are listed.	The example problems are correct.	Math work has *few* small errors.	*Many* of the example problems are incorrect. or Examples are copied directly from class notes.
Mathematical Concept: Fractions	Student demonstrates mastery of the concept.	Student demonstrates a strong understanding of the concept.	Student demonstrates understanding of the concept.	Student does not demonstrate full understanding of the concept.	Student makes numerous conceptual errors.
Presentation	The work is professional.	Student demonstrates creative effort. The Mini-Book is *very* well organized [each topic has sufficient space].	The work is neat. The Mini-Book is organized [pages are titled and there is a table of contents].	The quality is inconsistent.	The work appears sloppy and/or rushed. The Mini-Book is *not* well organized.

What are some things you enjoyed about this project?

What can this person do to take their project skills to the next level?