

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 at minimum 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:

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!

$\begin{array}{r} \frac{2}{9} \quad \times 2 \\ \quad \times 2 \\ + \frac{5}{6} \quad \times 3 \\ \quad \times 3 \\ \hline \end{array}$	$\begin{array}{r} \frac{4}{18} \\ + \frac{15}{18} \\ \hline \end{array}$	<p>← the common denominator</p>
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Aughh! An improper fraction! → $\frac{19}{18} = 1 \frac{1}{18}$

↑ Turn it into a mixed number, dude.

REMEMBER: When you add just add the numerators!

Pg. 4

OKAY sample page:

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

When the denominators are different you **CANNOT** add!

$\begin{array}{r} \frac{2}{9} \quad \times 2 \\ \quad \times 2 \\ + \frac{5}{6} \quad \times 3 \\ \quad \times 3 \\ \hline \end{array}$	$\begin{array}{r} \frac{4}{18} \\ + \frac{15}{18} \\ \hline \frac{19}{18} \end{array}$
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Remember to do this every time!

Fraction Mini-Book	Needs Improvement					Approaching Standards				Meets Standards				Exceeds Standards			
Strategy & Design	<u>Three of the following occurred:</u> <input type="checkbox"/> Math work contains error(s) <input type="checkbox"/> Example problems not always provided when necessary <input type="checkbox"/> Example problems are annotated but don't use a variety of strategies (text boxes, arrows, colors, etc.)					<u>Two of the following occurred:</u> <input type="checkbox"/> Math work contains error(s) <input type="checkbox"/> Example problems not always provided when necessary <input type="checkbox"/> Example problems are annotated but don't use a variety of strategies (text boxes, arrows, colors, etc.)				<u>One of the following occurred:</u> <input type="checkbox"/> Math work contains error(s) <input type="checkbox"/> Example problems not always provided when necessary <input type="checkbox"/> Example problems are annotated but don't use a variety of strategies (text boxes, arrows, colors, etc.)				<input checked="" type="checkbox"/> All math work is correct <input checked="" type="checkbox"/> Example problems are provided and thoroughly annotated using a variety of strategies (text boxes, arrows, colors, etc.)			
	0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00
	52	55	58	61	64	67	70	73	76	79	82	85	88	91	94	97	100
Writing & Communication	<u>Three of the following occurred:</u> <input type="checkbox"/> Mini-book is incomplete ; one or more concepts missing <input type="checkbox"/> Written explanations can be enhanced with more details and appropriate vocabulary <input type="checkbox"/> The overall quality of mini-book is inconsistent throughout					<u>Two of the following occurred:</u> <input type="checkbox"/> Mini-book is incomplete ; one or more concepts missing <input type="checkbox"/> Written explanations can be enhanced with more details and appropriate vocabulary <input type="checkbox"/> The overall quality of mini-book is inconsistent throughout				<u>One of the following occurred:</u> <input type="checkbox"/> Mini-book is incomplete ; one or more concepts missing <input type="checkbox"/> Written explanations can be enhanced with more details and appropriate vocabulary <input type="checkbox"/> The overall quality of mini-book is solid but could be enhanced				<input checked="" type="checkbox"/> All required concepts are communicated ; mini-book is complete <input checked="" type="checkbox"/> Written explanations are clear and complete, including appropriate vocabulary <input checked="" type="checkbox"/> The quality of mini-book is professional			
	0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00
	52	55	58	61	64	67	70	73	76	79	82	85	88	91	94	97	100