

5th Grade Math Fractions and Operations Common Core Enrichment Project Menu

CCSS.Math.Content.5.NF.A.1, CCSS.Math.Content.5.NF.B.4, CCSS.Math.Content.5.NF.B.7, CCSS.Math.Content.5.NF.A.2,
CCSS.Math.Content.5.NF.B.5, CCSS.Math.Content.5.NF.B.3, CCSS.Math.Content.5.NF.B.6

Name: _____

Due Date: _____

<p> Create a card game out of 3"x5" cards that teaches others how to divide and multiply fractions and mixed numbers. Use at least twenty cards in your game. Create a direction card on a separate 3"x5" card so that others will know how to play the game.</p> 	<p> Create ten problems in which you multiply a whole number by a fraction; for example, $\frac{2}{3} \times 4 = \frac{8}{3}$. Then write a story about your classroom to explain each fact. For example; Four students in our class only studied $\frac{2}{3}$ of their spelling words which means that altogether the four students only knew $\frac{8}{3}$ of their spelling words. Create an illustration for each problem.</p>	<p> Teach others how to divide whole numbers by unit fractions such as 4 divided by $\frac{1}{5}$. Create ten problems such as the one above using visual fraction models to show the quotient.</p> 
<p> Whenever you multiply a whole number by a whole number greater than 1, the product will be greater than both factors ($5 \times 3 = 15$). However when you multiply fractions that are less than a whole, the product may not be greater than both ($\frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$). Write a guide called "Great Math Mysteries" in which you explain the reasoning for the ideas above. Add models and drawings to your guide to create interest.</p>	<p> Create ten "Fraction Hero" trading cards. The hero can be any real life or a make believe person that you think is a hero. On the front of each card write their name and illustrate their picture. On the back write two fraction facts about your hero. Each fraction should have two different denominators. After you've written the facts, add the fractions together.</p> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> <p>For example: Jackie Robinson was very good at baseball as he could cover $\frac{2}{3}$ of the baseball field. Jackie Robinson played baseball $\frac{3}{5}$ of his life. (Then add $\frac{2}{3}$ and $\frac{3}{5}$.)</p> </div>	<p> Author a silly "Reasonable or Not Reasonable" book about adding and subtracting fractions. On the first page write a silly fraction question with this format, "Is it reasonable or not reasonable that $\frac{1}{8}$ of an egg added to $\frac{2}{6}$ of an egg would be $\frac{7}{24}$ of an egg?" On the next page you could write, "Not Reasonable, $\frac{1}{8}$ of an egg + $\frac{2}{6}$ of an egg = $\frac{11}{24}$ of an egg." Include five addition and five subtraction problems in your book with illustrations for each. Show your work in your book.</p>
<p> Choose your favorite fast food restaurant and create ten real world problems that involve division of non-zero whole numbers by fractions and vice versa. Use illustrations and equations to represent each problem.</p> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> <p>For example; How many Big Macs will each person get if 3 people share $\frac{1}{2}$ of a Big Mac? $3 \div \frac{1}{2} = 1\frac{1}{2}$ of a Big Mac</p> </div>	<p> Create a video game in which players need to multiply and divide fractions to win the game. Create an attractive video game cover enticing others to want to purchase the game and make a separate list of directions and rules explaining how to play the game.</p>	<p> Write song lyrics to your favorite tune teaching the concept of multiplying and dividing fractions.</p> 

Complete three projects in tic tac toe order.

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Terms	Definitions
fraction	part of a whole
numerator	the top number of a fraction
denominator	the bottom number of a fraction
like fraction	fractions that have the same denominators
unlike fractions	fractions that have different denominators
equivalent fractions	fractions that are equal to each other
simplest form	form in which the numerator and denominator have only 1 as a common factor
mixed number	a whole number with a fraction
improper fraction	numerator is larger than the denominator
factor	numbers you can multiply together to get another number

Rubric!

All projects are finished and you followed the directions..... 40 Points

Your projects are neat and organized.....30 Points

Your projects make math sense.....20 Points

Projects were completed on time.....10 Points

Total Possible.....100 Points

Student Name _____

Total Points _____

Grade _____