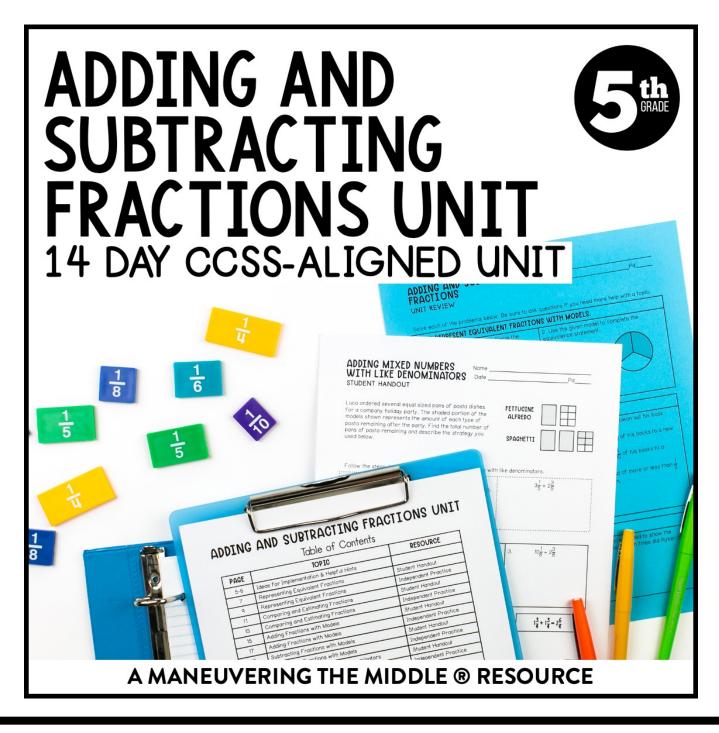
learning focus:

- add and subtract fractions less than one using models
- add and subtract fractions less than one with unlike denominators
- add and subtract mixed numbers with like and unlike denominators in real-world situations



ADDING AND SUBTRACTING FRACTIONS



a 14 day CCSS-aligned unit CCSS: 4.NF.A.2, 5.NF.1, 5.NF.2

ready-to-go, scaffolded student materials

ADDING AND SUBTRACTING FRACTIONS UNIT

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ADDING AND SUBTRACTING FRACTIONS



a 14 day CCSS-aligned unit CCSS:: 4.NF.A.2, 5.NF.1, 5.NF.2

student friendly + real-world application

SUBTRACTING MIXED NUM WITH LIKE DENOMINATORS STUDENT HANDOUT		Pd	scaffolded concepts
SUBTRACTING MIXED NUMBERS WITH LIKE Number parts and fraction parts to find to consider it in the first section parts to find to consider it in the first section parts to find to consider it in the first section parts to find to consider it in the first section parts to find to consider it in the first section parts to find to consider it in the first section parts to find to consider it in the first section parts to find to consider it in the first section parts to find to consider it in the first section parts to find to consider it in the first section parts to find to consider it in the first section parts to find to consider it in the first section parts to find to consider it in the first section parts to find to consider it in the first section parts to find to consider it in the first section parts to find to consider it in the first section parts to find to consider it in the first section parts to consider it in the first section parts to consider it in the first section parts and the first section parts are section parts are section parts and the first section parts are s	subtracting mixed numbers, you can consider the difference. Use the steps to complete the values of the and regroup the first ber if necessary.		
4. Simplify if	needed. $2\frac{1}{4}$ as sho rs and then tries to subtract the		
- •	write the first mixed number in the subtract	UNLIKE DENOMINATORS INDEPENDENT PRACTICE	WITH NamePdPd
WHEN TO REGROUP MIXED NUMBER SMALLER LARGER FRACTION FRACTION $2\left[\frac{1}{4}\right]-1\left[\frac{3}{4}\right]$	S HOW TO REGROUP MIXED NU 1. Borrow 1 from the whole number. Ri whole as a fraction with the same de 2. Add the 1 you borrowed to the fracti Example: $5\frac{1}{3} = $	$\frac{2}{3} - \frac{1}{8}$	secret code. $1 - \frac{5}{9}$ $\frac{4}{5} - \frac{1}{10}$
In #1-3, rewrite the subtraction problem 1. $5\frac{1}{8} - 3\frac{5}{6}$ 2.	n by regrouping the first mixed number. Do t $4\frac{2}{q}-1\frac{5}{q} \qquad \qquad 3. \qquad \qquad 7\frac{2}{5}-1$	→ 	$\frac{14}{15} - \frac{1}{5}$ $\frac{11}{12} - \frac{2}{3}$
lf-checki actice	ing	Tanner put $\frac{8}{q}$ tablespoon of caramel sauce his ice cream. Dylan used $\frac{1}{3}$ tablespoon les than Tanner. How much caramel sauce did Dylan put on his ice cream?	three days of the week. She walked $\frac{2}{5}$ mile

A MANEUVERING THE MIDDLE® RESOURCE

ADDING AND SUBTRACTING FRACTIONS



a 14 day CCSS-aligned unit CCSS:: 4.NF.A.2, 5.NF.1, 5.NF.2

unit study guide + assessments

ADDING AND SUBTRACTING FRACTIONS	NamePd_	quizzes
Answer the questions below. Be sure to show 1. Which of the following equivalence statem are represented by the model shown at the right is $\frac{5}{15} = \frac{1}{3}$ II. $\frac{1}{5} = \frac{5}{15}$	ents 1	editable unit tes
a. I only b. II only c. I and II 2. Mrs. Cohen asked her students to write two fractions. Which student(s) wrote a $\frac{\text{LAVON}}{112} > \frac{7}{8}$ MIA $\frac{11}{12} > \frac{7}{7}$ $\frac{2}{7} < \frac{5}{7}$	ADDING AND SUBTRACTIN FRACTIONS UNIT REVIEW Solve each of the problems below. Be sure of the	DatePd to ask questions if you need more help with a topic.
Answer the questions below. Be sure to 3. Draw a model to solve $\frac{1}{4} + \frac{3}{5}$. 5. Shai and Darrell shared a basket of to of the tortilla chips that each person ate. SHAI DARRELL What fraction of the tortilla chips did Shared a. $\frac{5}{12}$ b. $\frac{5}{4}$	names of the two students whose models represent equivalent fractions. LUCA KENZIE ELIAS I CAN COMPARE AND ESTIMATI 3. Circle the name(s) of the students wrote a correct inequality statement JOHN PROOKE ROMAN STATEMENT ST	SUBTRACTING FRACTIONS WITH MODELS STUDENT HANDOUT Nadia hosted an appreciation luncheon for the teachers at Riverbend Elementary. After the luncheon, there was $\frac{1}{2}$ of the turtle cheesecake remaining and $\frac{1}{3}$ of the chocolate cheesecake remaining. Use the models shown below to answer a-c. a. Which flavor has more left over? Turtle cheesecake b. Nadia wants to find the difference in the amounts remaining. What changes need to be made to the models before she can subtract the values? She needs to split the models into the same number of parts. C. Use the models to find the difference. \[\frac{1}{2-3} = \frac{1}{6} \] Similar to addition, fractions must be renamed with a common denominator before subtracting. Follow the steps outlined below to use area models to find a common denominator and visualize the difference of fractions with unlike denominators. SUBTRACTING FRACTIONS WITH AREA MODELS \[\frac{2}{3} - \frac{1}{4} \]
ınswer ke	BYRON	1. Create an area model for each fraction. (Note: Use vertical lines for one model and horizontal lines for the other.) 2. Divide each fraction model by the other fraction's denominator 3. Find the equivalent fractions represented and subtract the fraction amounts. For #1-3, use the area models to rename the fractions with a common denominator and find the difference. 1. \[\frac{1}{2} - \frac{2}{5} \] 2. \[\frac{4}{5} - \frac{1}{3} \] 3. \[\frac{5}{7} - \frac{1}{2} \] X X X X X X X X X X X X X X X X X X X
ncluded		X X X X X X X X X X X X X X X X X X X