4th Grade Chapter 7
"Add and Subtract Fractions" Reteach Lessons 7.1-7.10

Name _____ Lesson 7.1 Reteach

Add and Subtract Parts of a Whole

Justin has $\frac{3}{8}$ pound of cheddar cheese and $\frac{2}{8}$ pound of brick cheese. How much cheese does he have in all?

Step 1 Use fraction strips to model the problem. Use three $\frac{1}{8}$-strips to represent $\frac{3}{8}$ pound of cheddar cheese.

Step 2 Join two more $\frac{1}{8}$-strips to represent the amount of brick cheese.

Step 3 Count the number of $\frac{1}{8}$-strips. There are five $\frac{1}{8}$-strips. Write the amount as a fraction. Justin has $\frac{5}{8}$ pound of cheese.

Step 4 Use the model to write an equation. $\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$

Suppose Justin eats $\frac{1}{8}$ pound of cheese. How much cheese is left?

Step 1 Use five $\frac{1}{8}$-strips to represent the $\frac{5}{8}$ pound of cheese.

Step 2 Remove one $\frac{1}{8}$-strip to show the amount eaten.

Step 3 Count the number of $\frac{1}{8}$-strips left. There are four $\frac{1}{8}$ fraction strips. There is $\frac{4}{8}$ pound left.

Step 4 Write an equation for the model. $\frac{5}{8} - \frac{1}{8} = \frac{4}{8}$

Name _____ Lesson 7.2 Reteach

Write Fractions as Sums

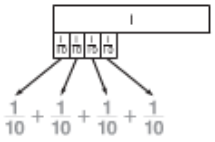
A **unit fraction** tells the part of the whole that 1 piece represents. A unit fraction always has a numerator of 1.

Bryan has $\frac{4}{10}$ pound of clay for making clay figures. He wants to use $\frac{1}{10}$ pound of clay for each figure. How many clay figures can he make?

Use fraction strips to write $\frac{4}{10}$ as a sum of unit fractions.

Step 1 Represent $\frac{4}{10}$ with fraction strips.

Step 2 Each $\frac{1}{10}$ is a unit fraction. Write a $\frac{1}{10}$ addend for each $\frac{1}{10}$-strip you used to show $\frac{4}{10}$.



Step 3 Count the number of addends. The number of addends represents the number of clay figures Bryan can make.

So, Bryan can make 4 clay figures.

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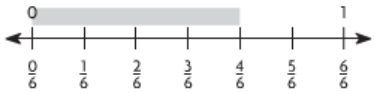
Name _____ Lesson 7.3 Reteach

Add Fractions Using Models

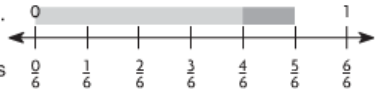
Fractions with like denominators have the same denominator. You can add fractions with like denominators using a number line.

Model $\frac{4}{6} + \frac{1}{6}$.

Step 1 Draw a number line labeled with sixths. Model the fraction $\frac{4}{6}$ by starting at 0 and shading 4 sixths.



Step 2 Add the fraction $\frac{1}{6}$ by shading 1 more sixth.



Step 3 How many sixths are there in all? 5 sixths

Write the number of sixths as a fraction.

5 sixths = $\frac{5}{6}$ $\frac{4}{6} + \frac{1}{6} = \frac{5}{6}$

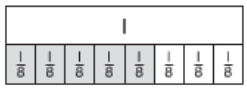
Name _____ Lesson 7.4 Reteach

Subtract Fractions Using Models

You can subtract fractions with like denominators using fraction strips.

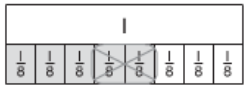
Model $\frac{5}{8} - \frac{2}{8}$.

Step 1 Shade the eighths you start with. Shade 5 eighths.



Step 2 Subtract $\frac{2}{8}$.

Think: How many eighths are taken away? Cross out 2 of the shaded eighths.



Step 3 Count the shaded eighths that remain. There are 3 eighths remaining.

Step 4 Write the number of eighths that remain as a fraction.

3 eighths = $\frac{3}{8}$ $\frac{5}{8} - \frac{2}{8} = \frac{3}{8}$

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Name _____ Lesson 7.5 Reteach

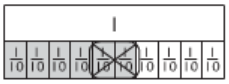
Add and Subtract Fractions

You can find and record the sums and the differences of fractions.

Add. $\frac{2}{6} + \frac{4}{6}$

Step 1 Model it.	**Step 2** Think: How many sixths are there in all?	**Step 3** Record it.
	There are 6 sixths. 6 sixths $= \frac{6}{6}$	Write the sum as an addition equation. $\frac{2}{6} + \frac{4}{6} = \frac{6}{6}$

Subtract. $\frac{6}{10} - \frac{2}{10}$

Step 1 Model it.	**Step 2** Think: There are 6 tenths. I take away 2 tenths. How many tenths are left?	**Step 3** Record it.
	There are 4 tenths left. 4 tenths $= \frac{4}{10}$	Write the difference as a subtraction equation. $\frac{6}{10} - \frac{2}{10} = \frac{4}{10}$

Name _____ Lesson 7.6 Reteach

Rename Fractions and Mixed Numbers

A **mixed number** is made up of a whole number and a fraction. You can use multiplication and addition to rename a mixed number as a fraction greater than 1.

Rename $2\frac{5}{6}$ as a fraction.

First, multiply the denominator, or the number of parts in the whole, by the whole number.

$6 \times 2 = 12$

Then, add the numerator to your product.

$12 + 5 = 17$

So, $2\frac{5}{6} = \frac{17}{6}$.

$2\frac{5}{6} = \frac{17}{6}$ — 17: total number of parts; 6: number of parts in the whole

You can use division to write a fraction greater than 1 as a mixed number.

Rename $\frac{16}{3}$ as a mixed number.

To rename $\frac{16}{3}$ as a mixed number, divide the numerator by the denominator.

Use the quotient and remainder to write a mixed number.

So, $\frac{16}{3} = 5\frac{1}{3}$.

$3\overline{)16}$ quotient 5, -15, remainder 1

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Name _____ Lesson 7.7 Reteach

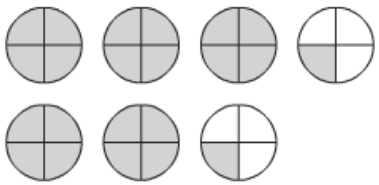
Add and Subtract Mixed Numbers

Find the sum. $3\frac{1}{4} + 2\frac{1}{4}$

Add the whole number and fraction parts.

- Add the whole numbers: $3 + 2 = 5$
- Add the fractions: $\frac{1}{4} + \frac{1}{4} = \frac{2}{4}$

Write the sum as a mixed number, so the fractional part is less than 1. $3\frac{1}{4} + 2\frac{1}{4} = 5\frac{2}{4}$

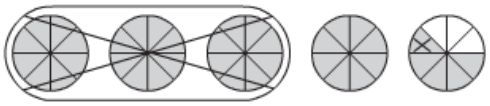


Find the difference. $4\frac{5}{8} - 3\frac{1}{8}$

Subtract the fraction and the whole number parts.

- Subtract the fractions: $\frac{5}{8} - \frac{1}{8} = \frac{4}{8}$
- Subtract the whole numbers: $4 - 3 = 1$

$4\frac{5}{8} - 3\frac{1}{8} = 1\frac{4}{8}$



Name _____ Lesson 7.8 Reteach

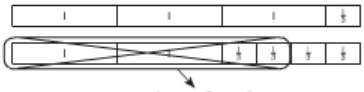
Subtraction with Renaming

Fraction strips can help you subtract mixed numbers or subtract a mixed number from a whole number.

Find the difference. $3\frac{1}{3} - 2\frac{2}{3}$

Step 1 Model the number you are subtracting from, $3\frac{1}{3}$.

Step 2 Because you cannot subtract $\frac{2}{3}$ from $\frac{1}{3}$ without renaming, change one of the 1 strips to three $\frac{1}{3}$ strips. Then subtract by crossing out two wholes and two $\frac{1}{3}$ strips.

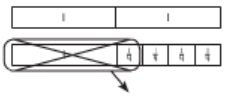


So, $3\frac{1}{3} - 2\frac{2}{3} = \frac{2}{3}$.

Find the difference. $2 - 1\frac{1}{4}$

Step 1 Model the number you are subtracting from, 2.

Step 2 Because you cannot subtract $\frac{1}{4}$ from 1 without renaming, change one of the 1 strips to four $\frac{1}{4}$ strips. Then subtract by crossing out one whole and one $\frac{1}{4}$ strip.



So, $2 - 1\frac{1}{4} = \frac{3}{4}$.

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Name _____ Lesson 7.9 Reteach

Fractions and Properties of Addition

Properties of addition can help you group and order addends so you can use mental math to find sums.

The **Commutative Property of Addition** states that when the order of two addends is changed, the sum is the same. $6 + 3 = 3 + 6$

The **Associative Property of Addition** states that when the grouping of addends is changed, the sum is the same. $(3 + 6) + 4 = 3 + (6 + 4)$

Use the properties and mental math to add $10\frac{3}{8} + 4\frac{7}{8} + 6\frac{5}{8}$.

Step 1 Look for fractions that combine to make 1. $10\frac{3}{8} + 4\frac{7}{8} + 6\frac{5}{8}$

Step 2 Use the Commutative Property to order the addends so that the fractions with a sum of 1 are together. $10\frac{3}{8} + 4\frac{7}{8} + 6\frac{5}{8} = 10\frac{3}{8} + 6\frac{5}{8} + 4\frac{7}{8}$

Step 3 Use the Associative Property to group the addends that you can add mentally. $= \left(10\frac{3}{8} + 6\frac{5}{8}\right) + 4\frac{7}{8}$

Step 4 Add the grouped numbers and then add the other mixed number. $= (17) + 4\frac{7}{8}$

Step 5 Write the sum. $= 21\frac{7}{8}$

Name _____ Lesson 7.10 Reteach

Problem Solving • Multistep Fraction Problems

Jeff runs $\frac{3}{5}$ mile each day. He wants to know how many days he has to run before he has run a whole number of miles.

Read the Problem	Solve the Problem
What do I need to find? I need to find how many days Jeff needs to run $\frac{3}{5}$ mile until he has run a whole number of miles.	**Describe how to act it out.** **Use a number line.** 
What information do I need to use? Jeff runs $\frac{3}{5}$ mile a day. He wants the distance run to be a whole number.	Day 1: $\frac{3}{5}$ mile Day 2: $\frac{6}{5}$ mile $\frac{3}{5} + \frac{3}{5} = \frac{6}{5}$ 1 whole mile and $\frac{1}{5}$ mile more Day 3: $\frac{9}{5}$ mile $\frac{3}{5} + \frac{3}{5} + \frac{3}{5} = \frac{9}{5}$ 1 whole mile and $\frac{4}{5}$ mile more
How will I use the information? I can use a number line and patterns to act out the problem.	Day 4: $\frac{12}{5}$ mile $\frac{3}{5} + \frac{3}{5} + \frac{3}{5} + \frac{3}{5} = \frac{12}{5}$ 2 whole miles and $\frac{2}{5}$ mile more Day 5: $\frac{15}{5}$ mile $\frac{3}{5} + \frac{3}{5} + \frac{3}{5} + \frac{3}{5} + \frac{3}{5} = \frac{15}{5}$ 3 whole miles So, Jeff will run a total of 3 miles in 5 days.