



Lesson Notes

6.4

NAME _____

Module 6 Computational Fluency of Fractions
Lesson 4 Adding and Subtracting Mixed Numbers

Lesson Objectives

- Model addition and subtraction of mixed numbers using diagrams and/or illustrations of manipulatives.
- Develop and use algorithms to add and to subtract mixed numbers.

Subtopic 1 Adding Mixed Numbers

Adding Mixed Numbers

- Write **equivalent** fractions using the LCD.
- Add the **fractions**.
- Add the **whole numbers**.
- Write the sum in **simplest form**.

1 On Monday, Carter walked $4\frac{3}{5}$ miles. On Tuesday, he walked $2\frac{3}{5}$ miles. How many miles did Carter walk both days?

$$4\frac{3}{5} + 2\frac{3}{5}$$

$$6\frac{6}{5}$$

$$6 + \frac{6}{5}$$

$$6 + 1 + \frac{1}{5}$$

$$7\frac{1}{5}$$

Carter walked $7\frac{1}{5}$ miles in both days.



Jodi hiked up to the mountain peak in $6\frac{1}{2}$ hours. It took her $3\frac{4}{5}$ hours to hike back down to her starting point. How long did she hike altogether?

$$\begin{array}{r}
 6\frac{1}{2} + 3\frac{4}{5} \\
 6\frac{1 \cdot 5}{2 \cdot 5} + 3\frac{4 \cdot 2}{5 \cdot 2} \\
 6\frac{5}{10} + 3\frac{8}{10} \\
 9\frac{13}{10} \\
 10\frac{3}{10}
 \end{array}$$

Jodi hiked $10\frac{3}{10}$ hours altogether.

Subtopic 2 Subtraction of Mixed Numbers

Subtracting Mixed Numbers

- Write the equivalent fractions using the **LCD**, if necessary.
- Subtract the **fractions**. Regroup, if necessary.
- Subtract the **whole numbers**.
- Write the difference in **simplest form**.



The Moon Sox baseball team played a doubleheader. The first game was played in $3\frac{1}{4}$ hours. The second game was played in $1\frac{3}{4}$ hours. How much more time did it take to play the first game?

$$\begin{array}{r}
 3\frac{1}{4} - 1\frac{3}{4} \\
 2\frac{5}{4} - 1\frac{3}{4} \\
 1\frac{2}{4} \\
 1\frac{1}{2}
 \end{array}$$

It took $1\frac{1}{2}$ hours longer to play the first game.

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Eva has 5 pounds of potatoes. She uses $3\frac{2}{5}$ pounds of potatoes to make potato salad. How many pounds of potatoes are left?

$$\begin{array}{r} 5 - 3\frac{2}{5} \\ 4\frac{5}{5} - 3\frac{2}{5} \\ 1\frac{3}{5} \end{array}$$

Eva has $1\frac{3}{5}$ pounds of potatoes left.



From a $9\frac{1}{6}$ foot piece of string, Kelly cut off $3\frac{3}{4}$ feet of string. How much string is left?

$$\begin{array}{r} 9\frac{1}{6} - 3\frac{3}{4} \\ 9\frac{1 \cdot 2}{6 \cdot 2} - 3\frac{3 \cdot 3}{4 \cdot 3} \\ 9\frac{2}{12} - 3\frac{9}{12} \\ 8\frac{14}{12} - 3\frac{9}{12} \\ 5\frac{5}{12} \end{array}$$

There are $5\frac{5}{12}$ feet of string left.

