

Independent Practice

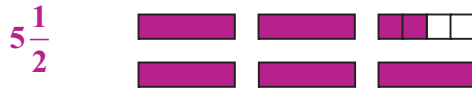
6.4

NAME _____

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

Model to solve.

1. $2\frac{1}{4} + 3\frac{1}{4}$



Evaluate the expression.

2. $5\frac{1}{6} + 3\frac{1}{2}$

$8\frac{2}{3}$

3. $4\frac{1}{5} + 3\frac{2}{3}$

$7\frac{13}{15}$

4. $7\frac{3}{4} + 2\frac{1}{3}$

$10\frac{1}{12}$

5.
$$\begin{array}{r} 2\frac{3}{7} \\ +3\frac{4}{7} \\ \hline 6 \end{array}$$

6.
$$\begin{array}{r} 3\frac{3}{4} \\ +8\frac{2}{5} \\ \hline 12\frac{3}{20} \end{array}$$

7.
$$\begin{array}{r} 6\frac{5}{8} \\ +3\frac{3}{4} \\ \hline 10\frac{3}{8} \end{array}$$

8. Marcy bought $5\frac{1}{2}$ yards of blue ribbon and $3\frac{3}{4}$ yard of green ribbon to decorate a hat. How many total yards of ribbon did she buy?

Marcy bought $9\frac{1}{4}$ yards of ribbon.

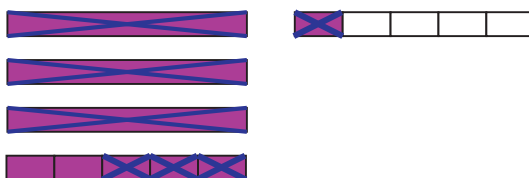
9. James used three bags of limes to make limeade. The weight of the three bags was $1\frac{1}{2}$ pounds, $2\frac{1}{5}$ pounds, and $\frac{7}{8}$ pound. How many total pounds of limes did James use?

James used $4\frac{23}{40}$ pounds of limes.

Model to solve.

10. $4\frac{1}{5} - 3\frac{4}{5}$

$\frac{2}{5}$



Evaluate the expression.

11. $4\frac{3}{8} - 2\frac{1}{8}$
 $2\frac{1}{4}$

12. $5\frac{1}{10} - 3\frac{7}{10}$
 $1\frac{2}{5}$

13. $8\frac{1}{4} - 5\frac{2}{3}$
 $2\frac{7}{12}$

14. $5 - 2\frac{5}{6}$
 $2\frac{1}{6}$

15. $9\frac{1}{3} - 4\frac{1}{3}$
 5

16. $8\frac{1}{5} - 2\frac{1}{3}$
 $5\frac{13}{15}$

17. Ryan is making a casserole recipe. He has a $11\frac{1}{2}$ ounce can of soup. The recipe calls for $6\frac{3}{4}$ ounces of soup. How much soup will he have left in the can after using what he needs for the recipe?

Ryan will have $4\frac{3}{4}$ ounces of soup left.

18. Enrique is joining two shorter sections of fence to close off the back of his yard. The two sections of fence are $6\frac{3}{8}$ yards and $9\frac{1}{2}$ yards. He needs a total of $12\frac{3}{4}$ yard to close off the back of the yard. How much fence will remain after he closes off the yard?

There will be $3\frac{1}{8}$ yards of fence remaining.

NAME _____

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

Journal

1. Alonso subtracted $3\frac{2}{3}$ from 7 as shown below. Find and correct his error.

$$\begin{array}{r} 7 \\ -3\frac{2}{3} \\ \hline \end{array} \qquad \begin{array}{r} 7\frac{3}{3} \\ -3\frac{2}{3} \\ \hline 4\frac{1}{3} \end{array}$$

2. Tell how to find the sum $7\frac{1}{3} + 3\frac{5}{8}$ without using a model.
3. Explain how you know, without solving, which sum below is a whole number. Then find that sum.

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

$$7\frac{3}{5} + 2\frac{1}{5}$$

Cumulative Review

Simplify.

1. $\frac{15}{25}$
 $\frac{3}{5}$

2. $\frac{18}{24}$
 $\frac{3}{4}$

3. $\frac{35}{50}$
 $\frac{7}{10}$

Write as a mixed number.

4. $\frac{17}{5}$
 $3\frac{2}{5}$

5. $\frac{25}{12}$
 $2\frac{1}{12}$

6. $\frac{8}{3}$
 $2\frac{2}{3}$

Evaluate.

7. 0.25×5

1.25

8. $7.44 \div 3.1$

2.4

9. $\frac{2}{5} + \frac{4}{5}$

$1\frac{1}{5}$

10. $\frac{3}{10} + \frac{1}{2}$

$\frac{4}{5}$

11. $\frac{13}{15} - \frac{7}{15}$

$\frac{2}{5}$

12. $\frac{1}{2} - \frac{1}{8}$

$\frac{3}{8}$

Possible Journal Answers

1. Alonso did not take one away from seven when he wrote $\frac{3}{3}$ in the minuend. The whole number seven should be rewritten as $6\frac{3}{3}$. The correct difference would be $3\frac{1}{3}$.
2. Begin by writing the fraction parts as equivalent fractions with a common denominator. The least common denominator of three and eight is 24. Multiply both parts of the first fraction by eight and both parts of the second fraction by three. The problem is now $7\frac{8}{24} + 3\frac{15}{24}$. Add the fractions: $\frac{23}{24}$. Add the whole numbers: 10. The answer is $10\frac{23}{24}$.
3. The first sum will be a whole number because the sum of the numerators is the same as the common denominator. The sum of the fractions is one.

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