

ANSWER KEY

Adding Mixed Numbers

With Different Denominators and Improper Fractions

Step 1: Find the Least Common Denominator (LCD).

$$\begin{array}{r} 4\frac{3}{4} \\ + 1\frac{7}{8} \\ \hline \end{array} \text{LCD} = 8$$

Step 2: Using the LCD, find equivalent fractions.

$$\begin{array}{r} 4\frac{3}{4} = 4\frac{6}{8} \\ + 1\frac{7}{8} = + 1\frac{7}{8} \\ \hline \end{array}$$

Step 3: Add the fractions.

$$\begin{array}{r} 4\frac{3}{4} = 4\frac{6}{8} \\ + 1\frac{7}{8} = + 1\frac{7}{8} \\ \hline 13\frac{13}{8} \end{array}$$

Step 4: Add the whole numbers.

$$\begin{array}{r} 4\frac{3}{4} = 4\frac{6}{8} \\ + 1\frac{7}{8} = + 1\frac{7}{8} \\ \hline 5\frac{13}{8} \end{array}$$

Step 5: Change improper fraction answers to mixed numbers.

$$5\frac{13}{8} - \frac{8}{8} = 6\frac{5}{8}$$

Solve and simplify your answer.