Lesson 15 Add Mixed Numbers

Here's How

Find the sum.

Add $1\frac{3}{8}$ and $1\frac{3}{4}$.

$1\frac{3}{8} + 1\frac{3}{4} = ?$

These fractions do not have the same denominator.

$\frac{13}{8} + \frac{15}{8} = \frac{28}{8}$

Sometimes the fraction in the answer is an improper fraction.

Rename each fraction using the LCD.

The LCD is 8.

First add the fractions.

Then add the whole numbers.

Rename $2\frac{9}{8}$. Think: $2\frac{9}{8} = 2 + \frac{9}{8}$

$= 2 + 1\frac{1}{8}$

$= 3\frac{1}{8}$

The sum of $1\frac{3}{8}$ and $1\frac{3}{4}$ is $3\frac{1}{8}$.

Try These

Find each sum. Write the answer in lowest terms.

Remember to make an improper fraction into a mixed number—divide the numerator by the denominator and write the remainder as a fraction.

After renaming the improper fraction, sometimes the fraction needs to be written in lowest terms.

1. $5\frac{5}{8} + 7\frac{6}{8} = 12\frac{11}{8}$

2. $9\frac{3}{6} + 4\frac{7}{12} = 13\frac{1}{4}$

3. $3\frac{3}{4} + 6\frac{1}{2} = 10\frac{1}{4}$

4. $4\frac{5}{6} + 3\frac{5}{12} = 8\frac{1}{4}$

5. $6\frac{7}{10} + 3\frac{4}{5} = 13\frac{1}{2}$

6. $4\frac{3}{4} + 5\frac{5}{6} = 10\frac{1}{6}$

Answers: 1. $13\frac{1}{4}$ 2. $14\frac{1}{4}$ 3. $10\frac{1}{4}$ 4. $13\frac{1}{2}$ 5. $13\frac{1}{2}$ 6. $10\frac{1}{6}$
Find each sum. Write the answer in lowest terms.

1. \(3\frac{2}{5} + 6\frac{4}{5}\)
2. \(9\frac{2}{3} + 4\frac{3}{5}\)
3. \(3\frac{5}{6} + 4\frac{4}{8}\)

4. \(10\frac{1}{2} + 11\frac{8}{15}\)
5. \(8\frac{3}{16} + \frac{7}{8}\)
6. \(4\frac{2}{5} + 5\frac{2}{5}\)

7. \(11\frac{2}{8} + 5\frac{6}{8}\)
8. \(3\frac{9}{12} + 4\frac{3}{12}\)
9. \(7\frac{3}{10} + 8\frac{7}{10}\)

10. \(8\frac{5}{7} + \frac{10}{21}\)
11. \(13\frac{1}{2} + 3\frac{5}{8}\)
12. \(9\frac{6}{8} + \frac{7}{8}\)

13. \(\frac{2}{3} + 4\frac{4}{5}\)
14. \(5\frac{5}{8} + 6\frac{7}{8}\)
15. \(\frac{5}{6} + 10\frac{5}{6}\)

16. Carlos is making meatballs. He mixes \(1\frac{5}{8}\) pounds of ground pork with \(1\frac{1}{4}\) pounds of ground beef. What is the total weight of the meatball mix?