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.

▶ $1\frac{3}{8} = 1\frac{3}{8}$

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

Rename each fraction using the LCD.

The LCD is 8.

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

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

First add the fractions.

Then add the whole numbers.

Sometimes the fraction in the answer is an improper fraction.

▶ $2\frac{9}{8}$

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.

▶ 1. $5\frac{5}{8}$

$+7\frac{6}{8}$

$12\frac{11}{8} = $ ■ ■ ▬

2. $9\frac{3}{6}$

$+4\frac{7}{12}$

3. $3\frac{3}{4}$

$+6\frac{1}{2}$

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

▶ 4. $4\frac{5}{6}$

$+3\frac{5}{12}$

5. $6\frac{7}{10}$

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

6. $4\frac{3}{4}$

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

Go Ahead

Find each sum. Write the answer in lowest terms.

Remember, if you need to find the least common denominator (LCD), list the multiples to help you.

▶ 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. $4\frac{2}{5}$
$+5\frac{2}{5}$

Sometimes the improper fraction is equal to 1. When that happens, add 1 to the whole-number answer.

▶ 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. $15\frac{1}{2}$
$+\ 3\frac{5}{8}$

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?

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