

5-7

Study Guide and Intervention

Adding and Subtracting Unlike Fractions

To add fractions with unlike denominators, rename the fractions with a common denominator. Then add and simplify.

EXAMPLE Find $\frac{5}{7} + \frac{1}{3}$.

$$\begin{aligned}\frac{5}{7} + \frac{1}{3} &= \frac{5}{7} \cdot \frac{3}{3} + \frac{1}{3} \cdot \frac{7}{7} \\&= \frac{15}{21} + \frac{7}{21} \\&= \frac{22}{21}\end{aligned}$$

Use 7 $\cdot$ 3 or 21 as the common denominator.

Rename each fraction with the common denominator.

Add the numerators.

To subtract fractions with unlike denominators, rename the fractions with a common denominator. Then subtract and simplify.

EXAMPLE Find $3\frac{2}{3} - 2\frac{5}{8}$.

$$\begin{aligned}3\frac{2}{3} - 2\frac{5}{8} &= \frac{62}{9} - \frac{25}{8} \\&= \frac{62}{9} \cdot \frac{8}{8} - \frac{25}{8} \cdot \frac{9}{9} \\&= \frac{496}{72} - \frac{225}{72} \\&= \frac{271}{72}\end{aligned}$$

Write the mixed numbers as improper fractions.

Rename fractions using the LCD, 72.

Simplify.

Subtract the numerators.

Do Your Own Work

Find each sum or difference. Write in simplest form.

1. $\frac{5}{8} + \frac{2}{3}$

2. $\frac{7}{10} - \frac{10}{19}$

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

4. $-\frac{6}{11} - \frac{6}{11}$

5. $\frac{7}{4} + \frac{1}{4}$

6. $\frac{18}{15} - \frac{2}{20}$

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

8. $7\frac{3}{4} + \left(-3\frac{1}{2}\right)$

9. $\frac{3}{10} - \frac{1}{12}$

10. $4\frac{2}{18} - \left(-2\frac{4}{9}\right)$

11. $6\frac{3}{4} + 3\frac{1}{2}$

12. $7\frac{8}{9} + 9\frac{1}{3}$

13. $4\frac{1}{6} - 3\frac{1}{6}$

14. $5\frac{2}{3} - \left(-2\frac{1}{3}\right)$

15. $5\frac{1}{20} - 3\frac{2}{3}$

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