

2.17

Subtracting Mixed Numbers

• Example 1

Subtract.

$$\begin{aligned} 8\frac{7}{10} - 3\frac{3}{8} &= 8\frac{28}{40} - 3\frac{15}{40} && \text{Rewrite the fractions with the common denominator 40.} \\ &= 5\frac{13}{40} \end{aligned}$$

• • • CHECK YOURSELF 1

$$7\frac{11}{12} - 3\frac{5}{8}$$

• Example 2

Subtract.

$$\begin{aligned} 3\frac{1}{9} - 1\frac{5}{6} &= \frac{28}{9} - \frac{11}{6} && \text{Write the mixed numbers as} \\ &= \frac{56}{18} - \frac{33}{18} && \text{fractions.} \\ &= \frac{23}{18} = 1\frac{5}{18} && \text{Convert the fractions so that they} \\ & && \text{have the same denominator, 18.} \end{aligned}$$

• • • CHECK YOURSELF 2

$$5\frac{1}{6} - 3\frac{3}{4}$$

• • • CHECK YOURSELF ANSWERS

- $7\frac{11}{12} - 3\frac{5}{8} = 7\frac{22}{24} - 3\frac{15}{24} = 4\frac{7}{24}$.
- $1\frac{5}{12}$.

2.17 Exercises

Name _____

Section _____

Date _____

A N S W E R S

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

Subtract.

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

2. $5\frac{4}{5} - 1\frac{1}{6}$

3. $6\frac{3}{10} - 3\frac{7}{15}$

4. $8\frac{5}{12} - 4\frac{11}{15}$

5. $7\frac{5}{12} - 3\frac{11}{18}$

6. $9\frac{3}{7} - 2\frac{13}{21}$

7. $5\frac{5}{6} - 2\frac{1}{9}$

8. $9\frac{7}{18} - 3\frac{5}{12}$

9. $7\frac{1}{6} - 4\frac{1}{3}$

10. $12\frac{7}{15} - 8\frac{3}{5}$