

3.13

Adding Mixed Numbers with the Same Denominator

• Example 1

Add.

$$\begin{aligned} 3\frac{1}{5} + 4\frac{2}{5} &= (3 + 4) + \left(\frac{1}{5}\right) + \left(\frac{2}{5}\right) \\ &= 7 + \frac{3}{5} \\ &= 7\frac{3}{5} \end{aligned}$$

• • • CHECK YOURSELF 1

Add $2\frac{3}{10} + 3\frac{4}{10}$.

• Example 2

Adding Mixed Numbers

$$\begin{aligned} 2\frac{5}{7} + 3\frac{6}{7} &= 5\frac{11}{7} \\ &= \underbrace{5 + 1}\frac{4}{7} \\ &= 6\frac{4}{7} \end{aligned}$$

Write the improper fraction, $\frac{11}{7}$, as a mixed number, $1\frac{4}{7}$.

Add the remaining whole numbers. $5 + 1 = 6$.

• • • CHECK YOURSELF 2

Add $4\frac{3}{8} + 2\frac{7}{8}$.

• • • CHECK YOURSELF ANSWERS

1. $5\frac{7}{10}$. 2. $4\frac{3}{8} + 2\frac{7}{8} = 6\frac{10}{8} = 6 + 1\frac{2}{8} = 7\frac{2}{8} = 7\frac{1}{4}$.

3.13 Exercises

Name _____

Section _____

Date _____

A N S W E R S

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

Add.

1. $2\frac{2}{9} + 3\frac{5}{9}$

2. $5\frac{2}{9} + 6\frac{4}{9}$

3. $2\frac{1}{9} + 5\frac{5}{9}$

4. $1\frac{1}{6} + 5\frac{5}{6}$

5. $6\frac{5}{9} + 4\frac{7}{9}$

6. $5\frac{8}{9} + 4\frac{4}{9}$

7. $4\frac{5}{11} + 2\frac{3}{11}$

8. $4\frac{5}{8} + 3\frac{7}{8}$

9. $6\frac{7}{10} + 3\frac{3}{10}$

10. $2\frac{6}{7} + 3\frac{4}{7}$