

# Independent Practice

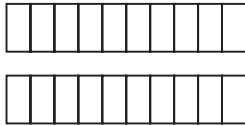
## 6.1

NAME \_\_\_\_\_

**Module 6 Computational Fluency of Fractions**  
**Lesson 1 Adding and Subtracting Fractions with Like Denominators**

Evaluate using a model.

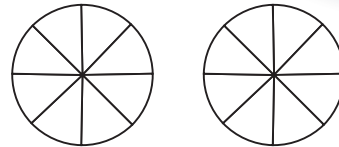
1.  $\frac{3}{10} + \frac{4}{10}$



$\frac{7}{10}$



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



$\frac{3}{4}$



Evaluate the expression.

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

$\frac{5}{7}$

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

$\frac{6}{6} = 1$

5.  $\frac{3}{10} + \frac{1}{10}$

$\frac{4}{10} = \frac{2}{5}$

6.  $\frac{5}{12} + \frac{6}{12}$

$\frac{11}{12}$

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

$\frac{6}{5} = 1\frac{1}{5}$

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

$\frac{12}{8} = 1\frac{4}{8} = 1\frac{1}{2}$



9. A teacher knows that  $\frac{1}{4}$  of her students walk to school and  $\frac{1}{4}$  of her students get a ride to school. What fraction of her students either walk to school or get a ride to school?

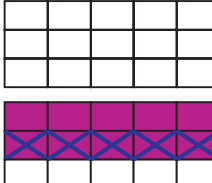
**The fraction of students walking or riding to school is  $\frac{1}{2}$ .**

10. Ken bought a bag of gumballs. He gave  $\frac{3}{20}$  of the gumballs to his brother and  $\frac{2}{20}$  of the gumballs to his sister. What fraction of the gumballs did Ken give away?

**Ken gave away  $\frac{1}{4}$  of the gumballs.**

Evaluate using a model.

11.  $\frac{3}{7} - \frac{1}{7}$    
 $\frac{2}{7}$  

12.  $\frac{10}{15} - \frac{5}{15}$    
 $\frac{5}{15} = \frac{1}{3}$

Evaluate the expression.

13.  $\frac{11}{12} - \frac{6}{12}$   
 $\frac{5}{12}$

14.  $\frac{8}{10} - \frac{3}{10}$   
 $\frac{5}{10} = \frac{1}{2}$

15.  $\frac{7}{9} - \frac{7}{9}$   
 $0$

16.  $\frac{7}{8} - \frac{1}{8}$   
 $\frac{6}{8} = \frac{3}{4}$

17.  $\frac{4}{9} - \frac{1}{9}$   
 $\frac{3}{9} = \frac{1}{3}$

18.  $\frac{11}{15} - \frac{2}{15}$   
 $\frac{9}{15} = \frac{3}{5}$

19. Yvette bought  $\frac{7}{8}$  pound of peanuts and ate  $\frac{5}{8}$  pound of them. What amount of peanuts did Yvette still have?

**Yvette still had  $\frac{1}{4}$  pound of peanuts.**

20. For a school project, Sadie bought  $\frac{1}{6}$  yard of fabric. Her mom brought home another  $\frac{4}{6}$  yard of fabric. When Sadie was done with the project, there was  $\frac{2}{6}$  yard of fabric left over. How much fabric did Sadie use for her project?

**Sadie used  $\frac{1}{2}$  yard of fabric.**

NAME \_\_\_\_\_

**Module 6**      **Computational Fluency of Fractions**  
**Lesson 1**      **Adding and Subtracting Fractions with**  
                         **Like Denominators**

**Journal**

1. Explain how to find the sum of  $\frac{2}{3} + \frac{2}{3}$  using a model.
2. Tell how to find the difference between  $\frac{7}{8} - \frac{5}{8}$  without using a model.
3. Which of the following problems will have a sum greater than one? Explain how you know. Then, find each sum.

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

$$\frac{6}{15} + \frac{7}{15}$$

**Cumulative Review**

**Simplify.**

1.  $\frac{8}{20}$

$\frac{2}{5}$

2.  $\frac{95}{100}$

$\frac{19}{20}$

3.  $\frac{24}{40}$

$\frac{3}{5}$

**Rewrite as a mixed number.**

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

$1\frac{5}{6}$

5.  $\frac{19}{9}$

$2\frac{1}{9}$

6.  $\frac{15}{10}$

$1\frac{1}{2}$

**Evaluate the expression.**

7.  $0.15 + 0.3$

$0.45$

8.  $3.24 + 1.56$

$4.8$

9.  $5.24 - 3.07$

**2.17**

10.  $9.8 - 5.15$

**4.65**

11. Three stores are holding sales on school supplies. Office Mart is offering half off all pens and pencils. Family Depot is offering 25% off all pens and pencils. Discount Center is offering 50% off all pens and pencils. Which two stores have the same discount offer?

**Office Mart and Discount Center have the same discount offer.**

### Possible Journal Answers

1. Draw two models, each with three equal parts. Shade two of the three parts in both models. To make a whole, move one of the shaded parts from the second model to the first. The first model is now a whole, and one of the three parts in the second model is shaded. The answer is  $1\frac{1}{3}$ .
2. The fractions have like denominators of eight, so the difference has eight in the denominator. The numerator of the difference is the difference of the numerators. Seven minus five is two, so the numerator is two. The difference is  $\frac{2}{8}$ , but the numerator and denominator have a common factor of two, so the fraction can be simplified to  $\frac{1}{4}$ .
3. The first problem will have a sum greater than one because the sum of the numerators is greater than the common denominator. The sum will be an improper fraction, which can be rewritten as a mixed number.

$$\frac{5}{7} + \frac{4}{7} = \frac{9}{7} = 1\frac{2}{7}$$

$$\frac{6}{15} + \frac{7}{15} = \frac{13}{15}$$