

# Adding and Subtracting Fractions with Like Denominators




NCTM Standards 1, 2, 7, 10

Complete the sentences with number words.




- 1 twelve apples + eight apples = \_\_\_\_\_
- 2 eight-eighths + three-eighths = \_\_\_\_\_
- 3 seven-fourths – four-fourths = \_\_\_\_\_

Shade the bars to show the sums. Complete the number sentences. Change improper fractions to mixed numbers.




$$\boxed{\phantom{00}} = 1$$

4  +  = 

$$\frac{2}{5} + \frac{3}{5} = \frac{\boxed{\phantom{00}}}{5} = \boxed{\phantom{00}}$$

5  +  = 

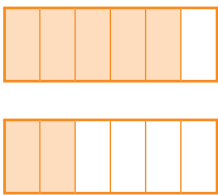
$$\frac{5}{6} + \frac{3}{6} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \boxed{\phantom{00}}$$

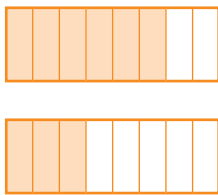
6  +  = 

$$\frac{4}{7} + \frac{2}{7} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

Use the pictures to complete the number sentences.

$$\boxed{\phantom{00}} = 1$$

7   $\frac{5}{6} - \frac{2}{6} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$

8   $\frac{6}{8} - \frac{3}{8} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$

**Complete the number sentences.**

9

$$\frac{7}{17} + \frac{8}{17} = \frac{\square}{\square}$$

10

$$\frac{15}{25} - \frac{9}{25} = \frac{\square}{\square}$$

11

$$\frac{50}{32} - \frac{29}{32} = \frac{\square}{\square}$$

12

$$\frac{4}{16} + \frac{\square}{\square} = \frac{13}{16}$$

13

$$\frac{\square}{\square} + \frac{39}{70} = \frac{72}{70}, \text{ or } 1\frac{2}{70}$$

14

$$\frac{\square}{\square} - \frac{9}{47} = \frac{18}{47}$$

15 Choose one of the number sentences above. Write it and three related addition and subtraction sentences.

$$\frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square}$$

$$\frac{\square}{\square} - \frac{\square}{\square} = \frac{\square}{\square}$$

$$\frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square}$$

$$\frac{\square}{\square} - \frac{\square}{\square} = \frac{\square}{\square}$$

**16 Challenge**

$$\frac{18}{98} + \frac{9}{98} + \frac{5}{98} + \frac{17}{98} = \frac{\square}{\square}$$

Write an equivalent fraction for the sum.  $\frac{\square}{\square}$