

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Use the following three fractions to write two subtraction and two addition number sentences.

a. $\frac{5}{6}, \frac{4}{6}, \frac{9}{6}$	b. $\frac{5}{9}, \frac{13}{9}, \frac{8}{9}$
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2. Solve. Model each subtraction problem with a number line, and solve by both counting up and subtracting.

a.  $1 - \frac{5}{8}$

b.  $1 - \frac{2}{5}$

c.  $1\frac{3}{6} - \frac{5}{6}$

d.  $1 - \frac{1}{4}$

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

f.  $1\frac{1}{5} - \frac{2}{5}$

3. Find the difference in two ways. Use number bonds to decompose the total. Part (a) has been completed for you.

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

$$\frac{5}{5} + \frac{2}{5} = \frac{7}{5}$$

$$\frac{7}{5} - \frac{4}{5} = \frac{3}{5}$$

$$\frac{5}{5} - \frac{4}{5} = \frac{1}{5}$$

$$\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$$

b.  $1\frac{3}{8} - \frac{7}{8}$

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

d.  $1\frac{2}{7} - \frac{5}{7}$

e.  $1\frac{3}{10} - \frac{7}{10}$

## Answer Key

1. a.  $\frac{5}{6} + \frac{4}{6} = \frac{9}{6}$ ,  $\frac{4}{6} + \frac{5}{6} = \frac{9}{6}$ ,  $\frac{9}{6} - \frac{5}{6} = \frac{4}{6}$ ,  $\frac{9}{6} - \frac{4}{6} = \frac{5}{6}$   
b.  $\frac{5}{9} + \frac{8}{9} = \frac{13}{9}$ ,  $\frac{8}{9} + \frac{5}{9} = \frac{13}{9}$ ,  $\frac{13}{9} - \frac{5}{9} = \frac{8}{9}$ ,  $\frac{13}{9} - \frac{8}{9} = \frac{5}{9}$
2. a.  $\frac{3}{8}$ ; number line models solution; solved by counting up and subtracting  
b.  $\frac{3}{5}$ ; number line models solution; solved by counting up and subtracting  
c.  $\frac{4}{6}$ ; number line models solution; solved by counting up and subtracting  
d.  $\frac{3}{4}$ ; number line models solution; solved by counting up and subtracting  
e.  $\frac{2}{3}$ ; number line models solution; solved by counting up and subtracting  
f.  $\frac{4}{5}$ ; Number line models solution; solved by counting up and subtracting
3. a. Answer provided  
b.  $\frac{8}{8} + \frac{3}{8} = \frac{11}{8}$ ,  $\frac{11}{8} - \frac{7}{8} = \frac{4}{8}$ ;  $\frac{8}{8} - \frac{7}{8} = \frac{1}{8}$ ,  $\frac{1}{8} + \frac{3}{8} = \frac{4}{8}$ ; number bond shows  $1\frac{3}{8}$  is  $\frac{8}{8}$  and  $\frac{3}{8}$   
c.  $\frac{4}{4} + \frac{1}{4} = \frac{5}{4}$ ,  $\frac{5}{4} - \frac{3}{4} = \frac{2}{4}$ ;  $\frac{4}{4} - \frac{3}{4} = \frac{1}{4}$ ,  $\frac{1}{4} + \frac{1}{4} = \frac{2}{4}$ ; number bond shows  $1\frac{1}{4}$  is  $\frac{4}{4}$  and  $\frac{1}{4}$   
d.  $\frac{7}{7} + \frac{2}{7} = \frac{9}{7}$ ,  $\frac{9}{7} - \frac{5}{7} = \frac{4}{7}$ ;  $\frac{7}{7} - \frac{5}{7} = \frac{2}{7}$ ,  $\frac{2}{7} + \frac{2}{7} = \frac{4}{7}$ ; number bond shows  $1\frac{2}{7}$  is  $\frac{7}{7}$  and  $\frac{2}{7}$   
e.  $\frac{10}{10} + \frac{3}{10} = \frac{13}{10}$ ,  $\frac{13}{10} - \frac{7}{10} = \frac{6}{10}$ ;  $\frac{10}{10} - \frac{7}{10} = \frac{3}{10}$ ,  $\frac{3}{10} + \frac{3}{10} = \frac{6}{10}$ ; number bond shows  $1\frac{3}{10}$  is  $\frac{10}{10}$  and  $\frac{3}{10}$