

Name \_\_\_\_\_

# Estimating Sums and Differences of Fractions

In **1** through **8**, tell if each fraction is closest to 0,  $\frac{1}{2}$ , or 1. You may use a number line to help.

1.  $\frac{1}{9}$  \_\_\_\_\_

2.  $\frac{5}{9}$  \_\_\_\_\_

3.  $\frac{11}{20}$  \_\_\_\_\_

4.  $\frac{6}{10}$  \_\_\_\_\_

5.  $\frac{6}{7}$  \_\_\_\_\_

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

7.  $\frac{3}{4}$  \_\_\_\_\_

8.  $\frac{12}{15}$  \_\_\_\_\_

In **9** through **16**, estimate each sum or difference by replacing each fraction with 0,  $\frac{1}{2}$ , or 1.

9.  $\frac{7}{12} + \frac{4}{5}$

10.  $\frac{1}{12} + \frac{2}{4}$

11.  $\frac{4}{9} - \frac{1}{6}$

12.  $\frac{2}{6} + \frac{8}{9}$

13.  $\frac{1}{6} - \frac{1}{8}$

14.  $\frac{2}{5} - \frac{3}{7}$

15.  $\frac{7}{8} - \frac{7}{9}$

16.  $\frac{5}{12} + \frac{2}{5}$

17. Which is the best estimate for the difference of  $\frac{9}{16} - \frac{4}{9}$ ?

A  $1 - 1 = 0$

C  $1 - \frac{1}{2} = \frac{1}{2}$

B  $\frac{1}{2} - \frac{1}{2} = 0$

D  $0 - 0 = 0$

18. Which fraction can NOT be replaced with  $\frac{1}{2}$  when estimating?

A  $\frac{10}{12}$

C  $\frac{4}{10}$

B  $\frac{2}{6}$

D  $\frac{13}{24}$

19. Mia estimated  $\frac{5}{8} + \frac{1}{9}$  by replacing  $\frac{5}{8}$  with 1 and  $\frac{1}{9}$  with 0. Her estimated sum was  $1 + 0 = 1$ . Explain why Mia's estimate is NOT accurate.

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