## 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 $0-0=0$
A $\frac{10}{12}$
C $\frac{4}{10}$
B $\frac{2}{6}$
D $\frac{13}{24}$
18. Which fraction can NOT be replaced with $\frac{1}{2}$ when estimating?
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.

