Estimate, Add, and Subtract Fractions
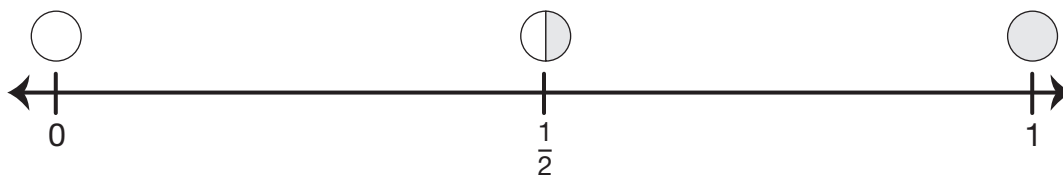
Homework

1. Tell whether the fraction is closest to 0, $\frac{1}{2}$, or 1.

   A. $\frac{5}{6}$ _____

   B. $\frac{2}{12}$ _____

   C. $\frac{3}{5}$ _____

   D. $\frac{7}{15}$ _____

2. Name two fractions with a sum that is between the two given numbers. Write a number sentence and solve it for each problem.

   A. 0 and 1   Number sentence _____

   B. 0 and $\frac{1}{2}$ Number sentence _____

   C. $\frac{1}{2}$ and 1   Number sentence _____

3. Jerome had to find two fractions with a sum greater than $\frac{1}{2}$. His solution is $\frac{1}{5} + \frac{8}{15}$. Is his solution correct? Tell why or why not.

4. Jerome used equivalent fractions to add and subtract. He found equivalent fractions until he found two fractions with common denominators. Then he could easily add or subtract them.
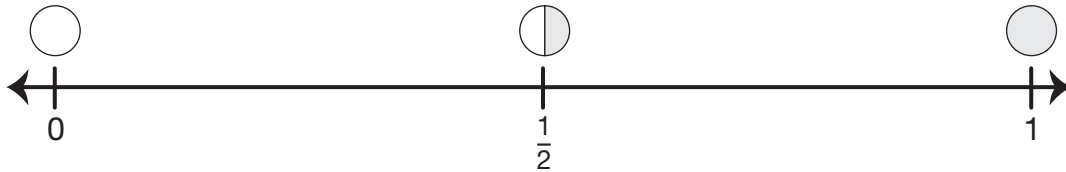
For example: $\frac{4}{5} - \frac{2}{15}$

$$\frac{4 \times 2 = 8}{5 \times 2 = 10} = \frac{\mathbf{8}}{\mathbf{10}} \qquad\qquad \frac{4 \times 3 = 12}{5 \times 3 = 15} = \frac{\mathbf{12}}{\mathbf{15}}$$

$$\frac{12}{15} - \frac{2}{15} = \frac{10}{15}$$

For each problem, use the number line to estimate the sum or difference. Then solve the problem using Jerome's method. Compare your estimate to your answer to see if it is reasonable.

A. $\frac{5}{6} - \frac{2}{3}$

B. $\frac{4}{8} + \frac{3}{12}$

C. $\frac{6}{10} - \frac{4}{20}$

Fraction Sums and Differences