

REVIEW: Adding and Subtracting Fractions with Like Denominators

Name _____

Key Concept and Vocabulary

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

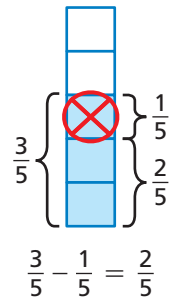
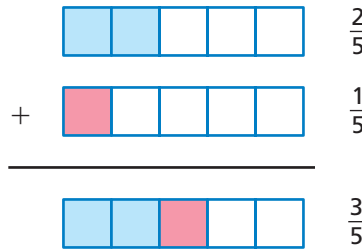
Add or subtract numerators.

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

Like denominators



Visual Models



Skill Examples

- $\frac{4}{8} + \frac{3}{8} = \frac{4+3}{8} = \frac{7}{8}$
- $\frac{3}{4} + \frac{1}{4} = \frac{3+1}{4} = \frac{4}{4} = 1$
- $\frac{7}{10} - \frac{4}{10} = \frac{7-4}{10} = \frac{3}{10}$
- $\frac{13}{25} - \frac{8}{25} = \frac{13-8}{25} = \frac{5}{25} = \frac{1}{5}$

Application Example

- On Monday, you painted $\frac{2}{5}$ of a fence. On Tuesday, you painted the same amount. What fraction of the fence do you have left to paint?

$$1 = \frac{5}{5} \text{ and } \frac{2}{5} + \frac{2}{5} = \frac{4}{5}; \quad \frac{5}{5} - \frac{4}{5} = \frac{1}{5}$$

∴ You have $\frac{1}{5}$ of the fence left to paint.



PRACTICE MAKES PURR-FECT®

Check your answers at BigIdeasMath.com.

Find the sum or difference.

- $\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$
- $\frac{6}{12} + \frac{5}{12} = \frac{11}{12}$
- $\frac{1}{10} + \frac{3}{10} = \frac{4}{10}, \text{ or } \frac{2}{5}$
- $\frac{3}{4} + \frac{2}{4} = \frac{5}{4}$
- $\frac{3}{8} + \frac{1}{8} = \frac{4}{8}, \text{ or } \frac{1}{2}$
- $\frac{1}{5} + \frac{2}{5} + \frac{2}{5} = \frac{5}{5}, \text{ or } 1$
- $\frac{6}{8} - \frac{1}{8} = \frac{5}{8}$
- $\frac{2}{3} - \frac{1}{3} = \frac{1}{3}$
- $\frac{7}{4} - \frac{3}{4} = \frac{4}{4}, \text{ or } 1$
- $\frac{9}{10} - \frac{7}{10} = \frac{2}{10}, \text{ or } \frac{1}{5}$
- $\frac{10}{12} - \frac{3}{12} = \frac{7}{12}$
- $\frac{6}{6} - \left(\frac{1}{6} + \frac{2}{6}\right) = \frac{3}{6}, \text{ or } \frac{1}{2}$

Find the perimeter of the rectangle or triangle.

- Perimeter = $\frac{6}{4}, \text{ or } \frac{3}{2}$

- Perimeter = $\frac{10}{5}, \text{ or } 2 \text{ cm}$

- Perimeter = $\frac{10}{8}, \text{ or } \frac{5}{4} \text{ in.}$

- Perimeter = $\frac{9}{10} \text{ m}$

- REACHING YOUR GOAL** You have a savings goal. In January, you saved $\frac{2}{10}$ of your goal.

In February, you saved $\frac{3}{10}$ of your goal. How much of your goal remains? Explain.

$$\frac{1}{2} \text{ of your goal remains; } 1 - \left(\frac{2}{10} + \frac{3}{10}\right) = \frac{10}{10} - \frac{5}{10} = \frac{5}{10} = \frac{1}{2}$$