Name _____

Key Concept and Vocabulary

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

Like denominators

Add or subtract numerators.

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

Visual Models

$\frac{2}{5}$

$+$ $\frac{1}{5}$

_____

$\frac{3}{5}$

$\frac{3}{5}$ $\left\{ \begin{array}{l} \frac{1}{5} \\ \frac{2}{5} \end{array} \right.$

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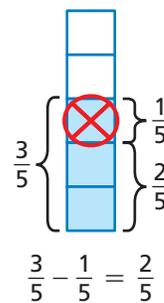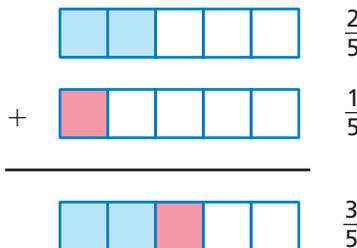
Skill Examples

1. $\frac{4}{8} + \frac{3}{8} = \frac{4+3}{8} = \frac{7}{8}$

2. $\frac{3}{4} + \frac{1}{4} = \frac{3+1}{4} = \frac{4}{4} = 1$

3. $\frac{7}{10} - \frac{4}{10} = \frac{7-4}{10} = \frac{3}{10}$

4. $\frac{13}{25} - \frac{8}{25} = \frac{13-8}{25} = \frac{5}{25} = \frac{1}{5}$

Application Example

5. 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?

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

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

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Check your answers at BigIdeasMath.com.

Find the sum or difference.

6. $\frac{3}{6} + \frac{2}{6} =$ _____

7. $\frac{6}{12} + \frac{5}{12} =$ _____

8. $\frac{1}{10} + \frac{3}{10} =$ _____

9. $\frac{3}{4} + \frac{2}{4} =$ _____

10. $\frac{3}{8} + \frac{1}{8} =$ _____

11. $\frac{1}{5} + \frac{2}{5} + \frac{2}{5} =$ _____

12. $\frac{6}{8} - \frac{1}{8} =$ _____

13. $\frac{2}{3} - \frac{1}{3} =$ _____

14. $\frac{7}{4} - \frac{3}{4} =$ _____

15. $\frac{9}{10} - \frac{7}{10} =$ _____

16. $\frac{10}{12} - \frac{3}{12} =$ _____

17. $\frac{6}{6} - \left(\frac{1}{6} + \frac{2}{6} \right) =$ _____

Find the perimeter of the rectangle or triangle.

18. $\frac{1}{4}$ ft, $\frac{2}{4}$ ft

Perimeter = _____

19. $\frac{2}{5}$ cm, $\frac{3}{5}$ cm

Perimeter = _____

20. $\frac{3}{8}$ in., $\frac{3}{8}$ in., $\frac{4}{8}$ in.

Perimeter = _____

21. $\frac{4}{10}$ m, $\frac{2}{10}$ m, $\frac{3}{10}$ m

Perimeter = _____

22. 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.

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