REVIEW: Adding and Subtracting Fractions with Like Denominators

Name _____

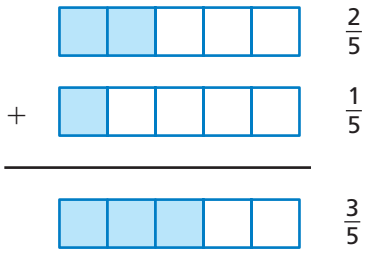
Key Concept and Vocabulary

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

Add or subtract numerators.

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

Visual Model



Skill Examples

1. $\frac{3}{8} + \frac{3}{8} = \frac{3+3}{8} = \frac{6}{8} = \frac{3}{4}$
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 two-fifths of a house. On Tuesday, you painted the same amount. How much is left?

$$\frac{5}{5} - \left(\frac{2}{5} + \frac{2}{5}\right) = \frac{5}{5} - \frac{4}{5} = \frac{1}{5}$$

∴ You have one-fifth left to paint.

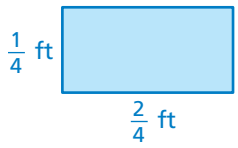
PRACTICE MAKES *PURR*-FECT™

Check your answers at BigIdeasMath.com.

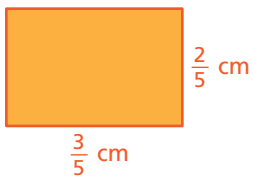
Find the sum or difference. Write your answer in simplified form.

6. $\frac{1}{9} + \frac{2}{9} =$ _____
7. $\frac{6}{11} + \frac{5}{11} =$ _____
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. $\frac{5}{8} - \frac{1}{8} =$ _____
13. $\frac{6}{7} - \frac{3}{7} =$ _____
14. $\frac{7}{9} - \frac{4}{9} =$ _____
15. $\frac{9}{10} - \frac{7}{10} =$ _____
16. $\frac{5}{6} - \frac{2}{6} =$ _____
17. $\frac{6}{6} - \left(\frac{1}{6} + \frac{2}{6}\right) =$ _____

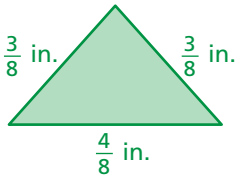
Find the perimeter of the rectangle or triangle.

18. 

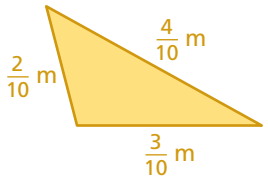
Perimeter = _____

19. 

Perimeter = _____

20. 

Perimeter = _____

21. 

Perimeter = _____

22. **REACHING YOUR GOAL** You have a savings goal. In January, you saved $\frac{2}{10}$ of your goal. In February, you saved $\frac{3}{10}$ more. How much of your goal remains? Explain.

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