

REVIEW: Adding and Subtracting Fractions with Unlike Denominators

Name _____

Key Concept and Vocabulary

$$\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$

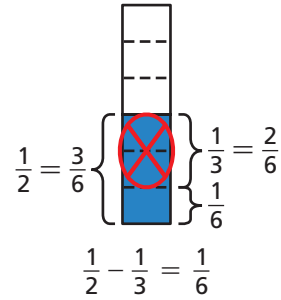
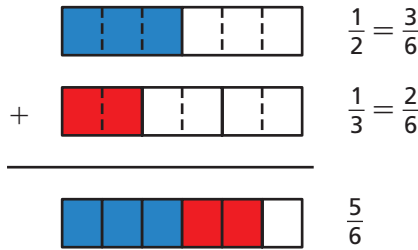
Use a like denominator.

$$\frac{1}{2} - \frac{1}{3} = \frac{3}{6} - \frac{2}{6} = \frac{1}{6}$$

Unlike denominators



Visual Models



Skill Examples

- $\frac{1}{2} + \frac{1}{4} = \frac{2}{4} + \frac{1}{4} = \frac{3}{4}$
- $\frac{1}{5} + \frac{2}{3} = \frac{3}{15} + \frac{10}{15} = \frac{13}{15}$
- $\frac{5}{6} - \frac{1}{3} = \frac{5}{6} - \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$
- $\frac{2}{3} - \frac{1}{4} = \frac{8}{12} - \frac{3}{12} = \frac{5}{12}$

Application Example

- You ride your bike $\frac{3}{8}$ mile to the store. Then you ride $\frac{1}{4}$ mile to school. How far do you ride altogether?

$$\frac{3}{8} + \frac{1}{4} = \frac{3}{8} + \frac{2}{8} = \frac{5}{8}$$

You ride $\frac{5}{8}$ mile.



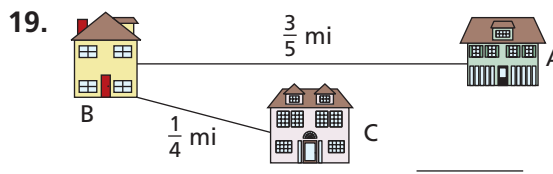
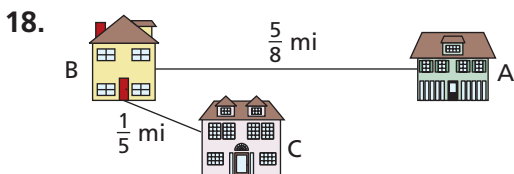
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Check your answers at BigIdeasMath.com.

Find the sum or difference.

- $\frac{1}{8} + \frac{3}{4} =$ _____
- $\frac{1}{3} + \frac{1}{5} =$ _____
- $\frac{3}{10} + \frac{1}{4} =$ _____
- $\frac{1}{2} + \frac{2}{5} =$ _____
- $\frac{1}{3} + \frac{1}{8} =$ _____
- $\frac{1}{8} + \frac{2}{5} =$ _____
- $\frac{5}{8} - \frac{1}{4} =$ _____
- $\frac{5}{6} - \frac{3}{5} =$ _____
- $\frac{5}{8} - \frac{2}{5} =$ _____
- $\frac{7}{10} - \frac{1}{4} =$ _____
- $\frac{3}{5} - \frac{1}{6} =$ _____
- $\frac{1}{5} - \frac{1}{6} =$ _____

Find the total distance from House A to House B and then to House C.



- WEASEL LENGTH** Find the total length of the weasel. _____



- IMPROVING YOUR SPEED** You swam at a rate of $\frac{3}{10}$ mile per hour in March. You swam at a rate of $\frac{3}{8}$ mile per hour in April. How much faster did you swim in April? _____