

# REVIEW: Adding and Subtracting Fractions with Unlike Denominators

Name \_\_\_\_\_

## Key Concept and Vocabulary

Find products.

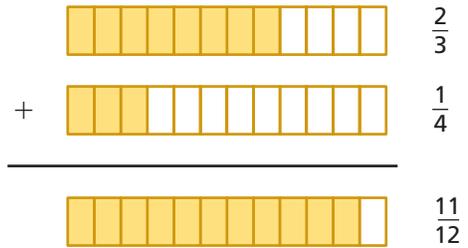
$$\frac{2}{3} \times \frac{1}{4} = \frac{2 \cdot 1}{3 \cdot 4} = \frac{2}{12}$$

$$\frac{2}{3} \times \frac{1}{4} = \frac{2 \cdot 4 + 3 \cdot 1}{3 \cdot 4} = \frac{11}{12}$$

$$\frac{2}{3} \times \frac{1}{4} = \frac{2 \cdot 4 - 3 \cdot 1}{3 \cdot 4} = \frac{5}{12}$$



## Visual Model



## Skill Examples

- $\frac{1}{5} + \frac{2}{3} = \frac{1 \cdot 3 + 5 \cdot 2}{5 \cdot 3} = \frac{13}{15}$
- $\frac{1}{2} + \frac{1}{4} = \frac{1 \cdot 4 + 2 \cdot 1}{2 \cdot 4} = \frac{6}{8} = \frac{3}{4}$
- $\frac{1}{3} - \frac{1}{4} = \frac{1 \cdot 4 - 3 \cdot 1}{3 \cdot 4} = \frac{1}{12}$
- $\frac{3}{7} - \frac{2}{5} = \frac{3 \cdot 5 - 7 \cdot 2}{7 \cdot 5} = \frac{1}{35}$

## Application Example

- You ride your bike  $\frac{3}{8}$  mile to the store. Then you ride  $\frac{1}{6}$  mile to school. How far do you ride altogether?

$$\frac{3}{8} + \frac{1}{6} = \frac{3 \cdot 6 + 8 \cdot 1}{8 \cdot 6} = \frac{26}{48} = \frac{13}{24}$$



You ride  $\frac{13}{24}$  mile.

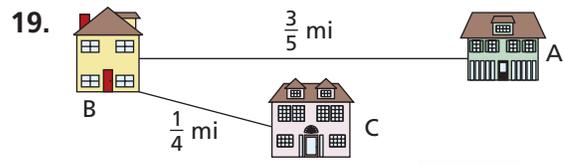
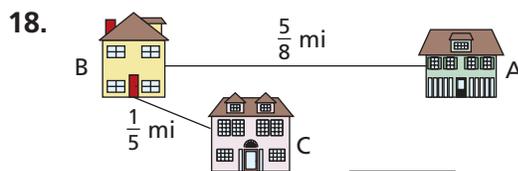
## PRACTICE MAKES PURR-FECT™

Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

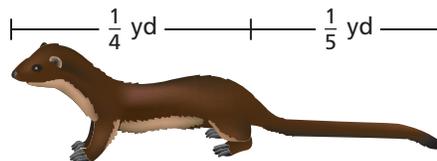
Find the sum or difference. Write your answer in simplified form.

- $\frac{1}{3} + \frac{1}{8} =$  \_\_\_\_\_
- $\frac{2}{3} + \frac{1}{5} =$  \_\_\_\_\_
- $\frac{3}{10} + \frac{1}{4} =$  \_\_\_\_\_
- $\frac{1}{2} + \frac{2}{5} =$  \_\_\_\_\_
- $\frac{3}{7} + \frac{1}{3} =$  \_\_\_\_\_
- $\frac{1}{8} + \frac{2}{5} =$  \_\_\_\_\_
- $\frac{5}{8} - \frac{1}{3} =$  \_\_\_\_\_
- $\frac{5}{6} - \frac{3}{5} =$  \_\_\_\_\_
- $\frac{5}{9} - \frac{2}{5} =$  \_\_\_\_\_
- $\frac{7}{10} - \frac{1}{4} =$  \_\_\_\_\_
- $\frac{3}{5} - \frac{1}{6} =$  \_\_\_\_\_
- $\frac{1}{5} - \frac{1}{6} =$  \_\_\_\_\_

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



20. **WEASEL LENGTH** Find the total length of the weasel. \_\_\_\_\_



21. **IMPROVING YOUR SPEED** You swam at a rate of  $\frac{3}{8}$  mile per hour in March. You swam at a rate of  $\frac{3}{7}$  mile per hour in April. How much faster did you swim in April? \_\_\_\_\_