$\qquad$ with Unlike Denominators


## Skill Examples

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

## PRACTICE makes PURR-FECT ${ }^{\text {m }}$ <br> PRAC

## Application Example

5. 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?

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

Check your answers at BigIdeasMath.com.
Find the sum or difference. Write your answer in simplified form.
6. $\frac{1}{3}+\frac{1}{8}=\underline{\frac{11}{24}}$
7. $\frac{2}{3}+\frac{1}{5}=\underline{\frac{13}{15}}$
8. $\frac{3}{10}+\frac{1}{4}=\underline{\frac{11}{20}}$
9. $\frac{1}{2}+\frac{2}{5}=\frac{\frac{9}{10}}{7}$
10. $\frac{3}{7}+\frac{1}{3}=\frac{\frac{16}{21}}{7}$
11. $\frac{1}{8}+\frac{2}{5}=\frac{\frac{21}{40}}{9}$
14. $\frac{5}{9}-\frac{2}{5}=\underline{\frac{7}{45}}$
15. $\frac{7}{10}-\frac{1}{4}=\underline{\frac{9}{20}}$
12. $\frac{5}{8}-\frac{1}{3}=\underline{\frac{7}{24}}$
13. $\frac{5}{6}-\frac{3}{5}=\frac{\frac{7}{30}}{1}$
16. $\frac{3}{5}-\frac{1}{6}=\underline{\frac{13}{30}}$
17. $\frac{1}{5}-\frac{1}{6}=\underline{\frac{1}{30}}$

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

18. 


20. WEASEL LENGTH Find the total
20. length of the weasel. $\qquad$
$\qquad$
19.


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? $\qquad$

