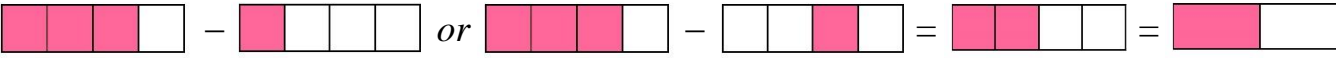
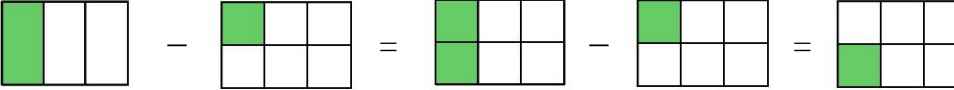
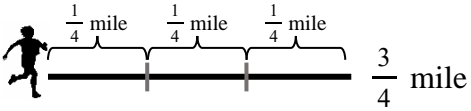
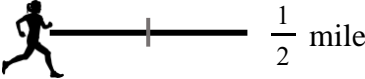


Check Your Answers on Subtracting Fractions!

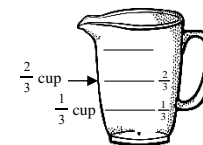
1. $\frac{1}{2}$ $\left(\frac{3}{4} - \frac{1}{4} = \frac{2}{4} = \frac{1}{2}\right)$ 

2. $\frac{1}{6}$ $\left(\frac{1}{3} - \frac{1}{6} = \frac{2}{6} - \frac{1}{6} = \frac{1}{6}\right)$ 

3. $\frac{1}{4}$ mile $\left(\frac{3}{4}$ mile $- \frac{1}{2}$ mile)
 Jack:  $\frac{3}{4}$ mile $\left(\frac{3}{4}$ mile $- \frac{2}{4}$ mile $= \frac{1}{4}$ mile)
 Jill:  $\frac{1}{2}$ mile

4. $1\frac{1}{3}$ cup

“How much more...” indicates subtraction although in this case it might be easier to consider how much sugar should be added to reach 2 cups.



5. $\frac{2}{5}$ $\left(\frac{7}{10} - \frac{3}{10} = \frac{4}{10} \div \frac{2}{2} = \frac{2}{5}\right)$

Subtracting requires “like terms” or common denominators. When the denominators are the same, combine the numerators. Don’t forget to simplify your answer!

6. $\frac{1}{6}$ $\left(\frac{5}{12} - \frac{1}{4} = \frac{5}{12} - \frac{1}{4} \cdot \frac{3}{3} = \frac{5}{12} - \frac{3}{12} = \frac{2}{12} \div \frac{2}{2} = \frac{1}{6}\right)$ It may be necessary to produce a common denominator (the least common multiple of the 2 denominators) by multiplying by some form of 1 (which does not change the value) before combining the numerators.

7. $\frac{7}{30}$ $\left(\frac{5}{6} - \frac{3}{5} = \frac{5}{6} \cdot \frac{5}{5} - \frac{3}{5} \cdot \frac{6}{6} = \frac{25}{30} - \frac{18}{30} = \frac{7}{30}\right)$

In order to subtract these fractions, it is necessary to produce equivalent fractions with the same denominator.

8. $\frac{11}{36}$ $\left(\frac{8}{9} - \frac{7}{12} = \frac{8}{9} \cdot \frac{4}{4} - \frac{7}{12} \cdot \frac{3}{3} = \frac{32}{36} - \frac{21}{36} = \frac{11}{36}\right)$

Although 108 is a common denominator, it is usually simpler to determine the *least* common denominator.

9. $\frac{1}{12}$ $\left(\frac{11}{15} - \frac{13}{20} = \frac{11}{15} \cdot \frac{4}{4} - \frac{13}{20} \cdot \frac{3}{3} = \frac{44}{60} - \frac{39}{60} = \frac{5}{60} = \frac{1}{12}\right)$ It can be challenging to find the least common denominator which is the least common multiple between those two denominators.

10. $1\frac{7}{24}$ $\left(3\frac{1}{8} - 1\frac{5}{6} = \frac{25}{8} - \frac{11}{6} = \frac{25}{8} \cdot \frac{3}{3} - \frac{11}{6} \cdot \frac{4}{4} = \frac{75}{24} - \frac{44}{24} = \frac{31}{24} = 1\frac{7}{24}\right)$

Don’t forget to change mixed numbers to improper fractions before producing common denominators!

Perfect score? Yes! You’ve got this!! You’re ready to move on to the next section!!!