

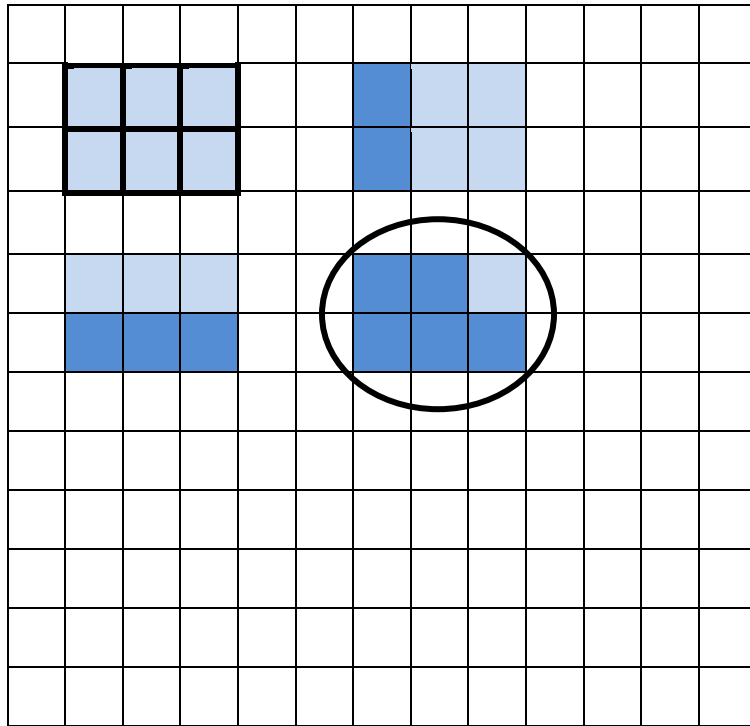


Adding and Subtracting Fractions and Decimals

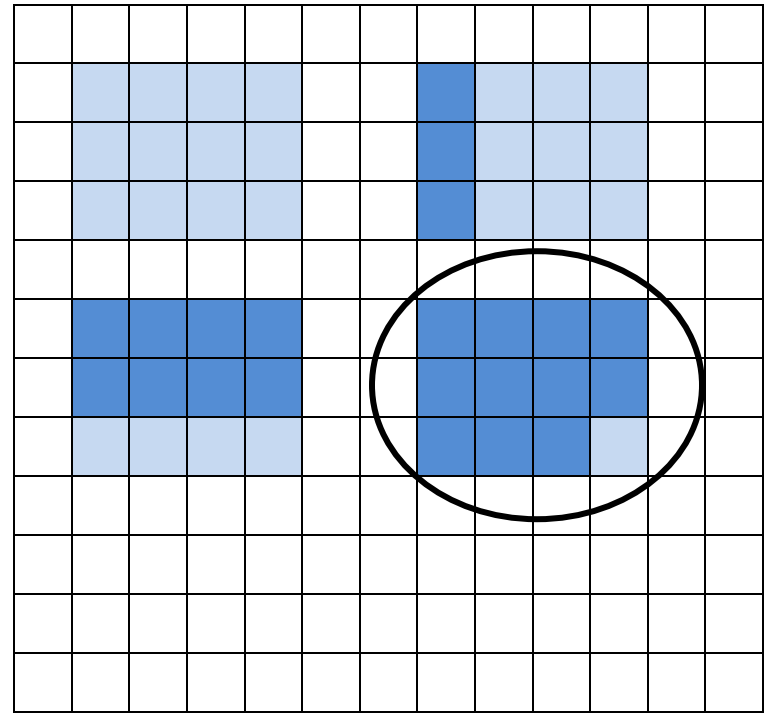
Explore – Answer Key

Directions: Solve the problems below by creating arrays of the denominators in the grids below or by using color tiles.

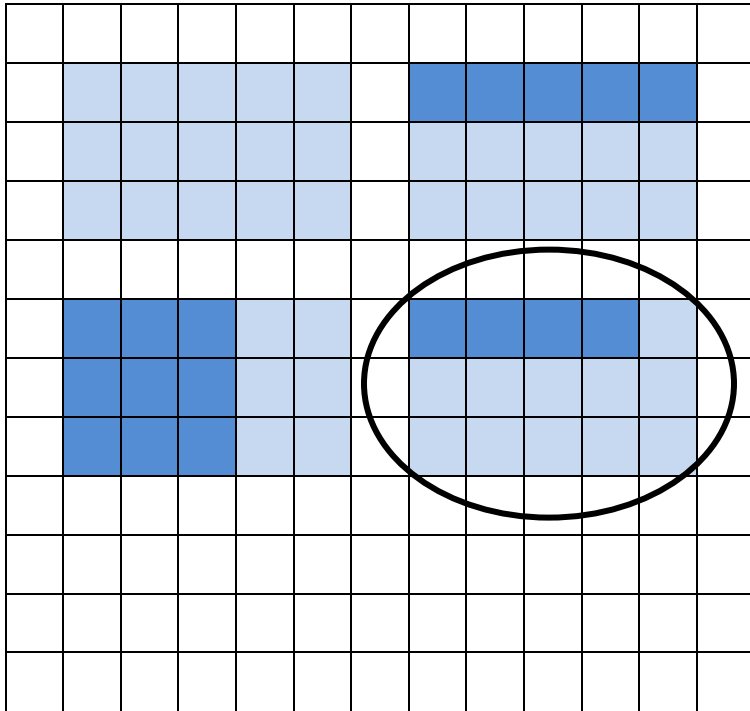
1. $\frac{1}{2} + \frac{1}{3} =$ $\frac{5}{6}$ _____



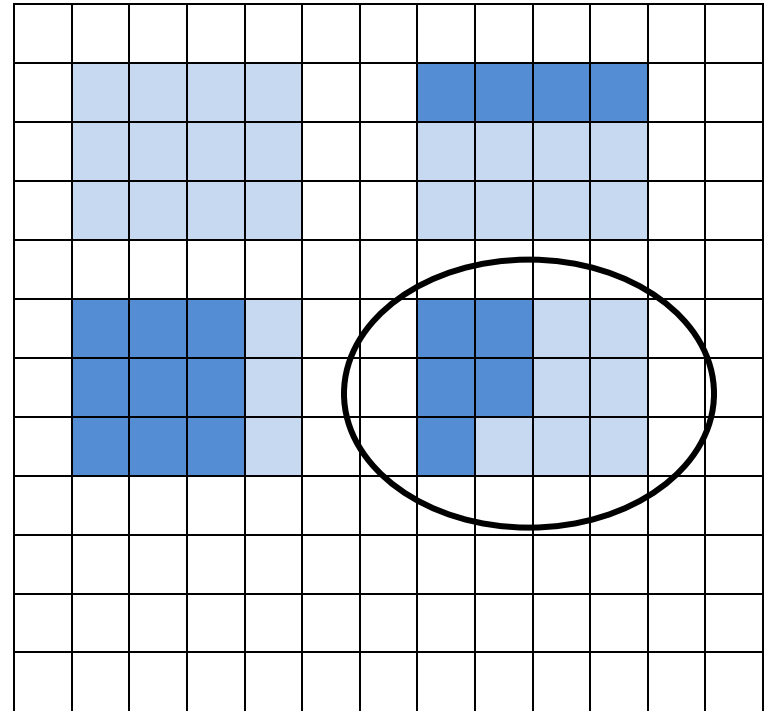
2. $\frac{2}{3} + \frac{1}{4} =$ $\frac{11}{12}$ _____



3. $\frac{3}{5} - \frac{1}{3} = \frac{4}{15}$



4. $\frac{3}{4} - \frac{1}{3} = \frac{5}{12}$

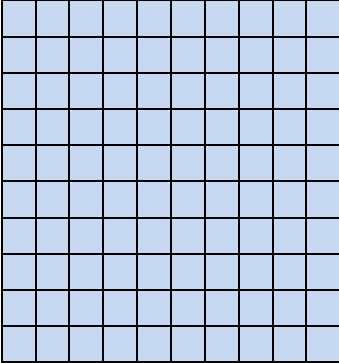
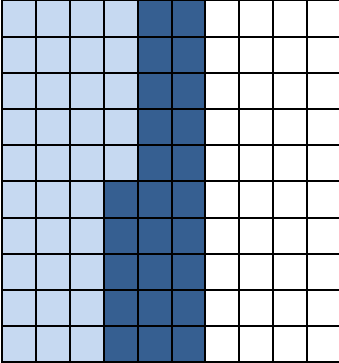
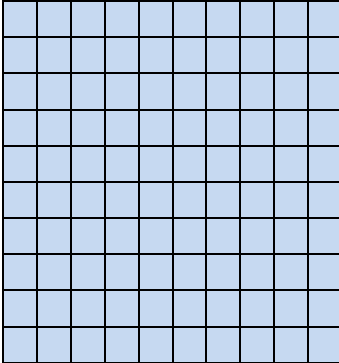
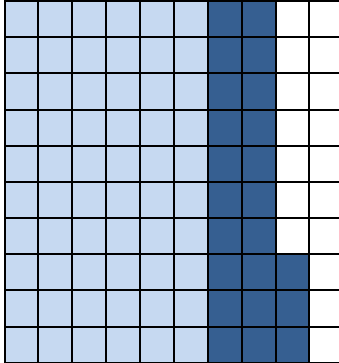


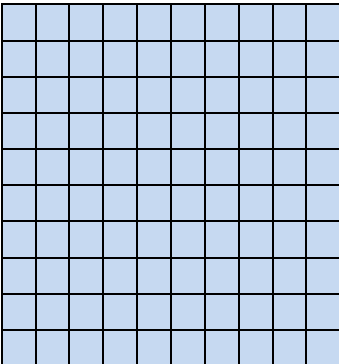
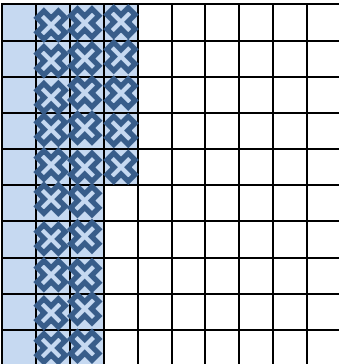
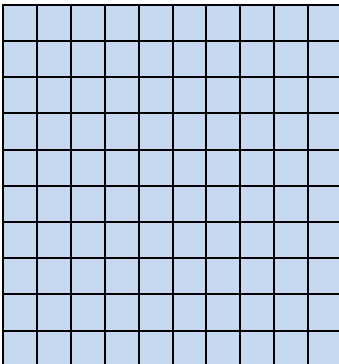
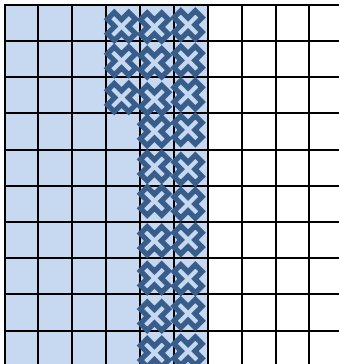
Debriefing Questions

1. What did you do with the tiles when subtracting fractions?
When subtracting fractions, you remove (take away) the tiles for the second fraction.
2. How does the total number of squares in the array compare to the denominators of each fraction?
The dimensions of the array are the denominators, so the total number of squares is the product of the denominators.



Solve the problems below using the models and then solve the problem using the standard algorithm. The first one is done for you.

<p>5. $1.35 + 0.25 = 1.6$</p> <div style="display: flex; justify-content: space-around;">   </div> <div style="text-align: right; margin-top: 10px;"> $\begin{array}{r} 1.35 \\ + 0.25 \\ \hline 1.60 \end{array}$ </div>	<p>6. $1.6 + 0.23 = 1.83$</p> <div style="display: flex; justify-content: space-around;">   </div> <div style="text-align: right; margin-top: 10px;"> $\begin{array}{r} 1.6 \\ + 0.23 \\ \hline 1.83 \end{array}$ </div>
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<p>7. $1.35 - 0.25 = 1.1$</p> <div style="display: flex; justify-content: space-around;">   </div> <div style="text-align: right; margin-top: 10px;"> $\begin{array}{r} 1.35 \\ - 0.25 \\ \hline 1.10 \end{array}$ </div>	<p>8. $1.6 - 0.23 = 1.37$</p> <div style="display: flex; justify-content: space-around;">   </div> <div style="text-align: right; margin-top: 10px;"> $\begin{array}{r} 1.6 \\ - 0.23 \\ \hline 1.37 \end{array}$ </div>
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What do you need to remember when adding decimals?

Always line up the decimal points. Add or subtract just like whole numbers but bring down the decimal point.

