Adding Fractions with Unlike Denominators

**Vocabulary**

**congruent:**

1. ____________
2. ____________
3. ____________
4. ____________
5. ____________

**common factors:**

1. ____________
2. ____________
3. ____________
4. ____________
5. ____________

In this activity, you will create equivalent fractions to add fractions with unlike denominators.

1. What is \( \frac{5}{11} + \frac{2}{11} \)? Shade the unit squares to show the addition. Explain how the unit squares support your answer.

2. Is \( \frac{3}{4} + \frac{2}{5} \) the same as \( \frac{5}{9} \)? Why or why not?

3. Which of the following will give you \( \frac{4}{3} \) cups of sugar?
   a. use a \( \frac{1}{4} \) cup once, a \( \frac{1}{3} \) cup once and a \( \frac{1}{2} \) cup once
   b. use a \( \frac{1}{2} \) cup twice and a \( \frac{1}{3} \) cup once
   c. use a \( \frac{1}{3} \) cup twice and a \( \frac{1}{2} \) cup once
4. Adam said that to find the sum of $\frac{6}{4}$ and $\frac{2}{3}$, you could rewrite $\frac{6}{4}$ as $\frac{6}{12}$ and $\frac{2}{3}$ as $\frac{2}{12}$ then you could add the two fractions together to get $\frac{8}{12}$. Is Adam correct? Explain why or why not.