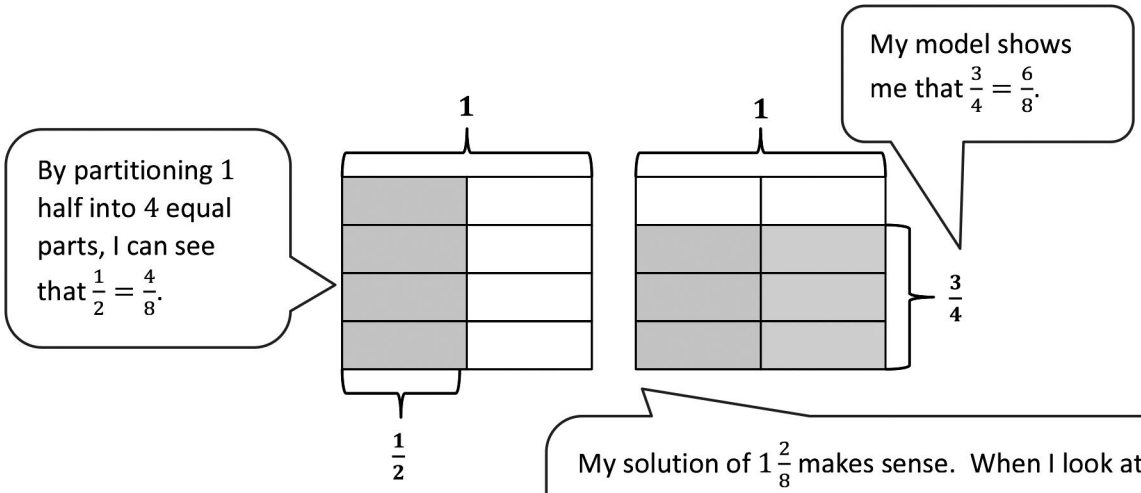
For the following problem, draw a picture using the rectangular fraction model, and write the answer. If possible, write your answer as a mixed number.

$\frac{1}{2}+\frac{3}{4}$

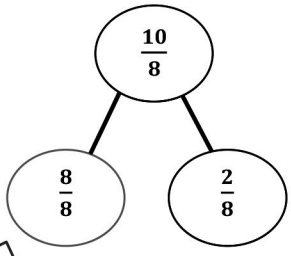
I need to make like units before adding.



My solution of $1\frac{2}{8}$ makes sense. When I look at the fraction models and think about adding them together, I can see that they would make 1 whole and 2 eighths when combined.

$$\frac{1}{2}+\frac{3}{4}=\frac{4}{8}+\frac{6}{8}=\frac{10}{8}=1\frac{2}{8}$$

I don't need to express my solution in simplest form, but if wanted to, I could show that $1\frac{2}{8}=1\frac{1}{4}$.



I can use a number bond to rename $\frac{10}{8}$ as a mixed number. This part-part-whole model shows that 10 eighths is composed of 8 eighths and 2 eighths.

Name _____ Date _____

1. For the following problems, draw a picture using the rectangular fraction model and write the answer. When possible, write your answer as a mixed number.

a. $\frac{3}{4} + \frac{1}{3} =$

b. $\frac{3}{4} + \frac{2}{3} =$

c. $\frac{1}{3} + \frac{3}{5} =$

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

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

f. $\frac{4}{3} + \frac{4}{7} =$

Solve the following problems. Draw a picture, and write the number sentence that proves the answer. Simplify your answer, if possible.

2. Sam made $\frac{2}{3}$ liter of punch and $\frac{3}{4}$ liter of tea to take to a party. How many liters of beverages did Sam bring to the party?

3. Mr. Simpson used $\frac{5}{8}$ of a tank of gas on a trip to visit relatives for the weekend and another 1 half of a tank commuting to work the next week. He then took another weekend trip and used $\frac{1}{4}$ tank of gas. How many tanks of gas did Mr. Simpson use altogether?