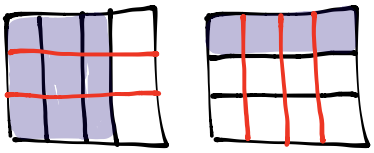
Name _____ Date _____

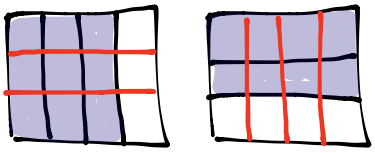
1. Directions: For the following problems, draw a picture using the rectangular fraction model and write the answer. When possible, write your answer as a mixed number.

a) $\frac{3}{4}+\frac{1}{3}=\frac{9}{12}+\frac{4}{12}=\frac{13}{12}=1\frac{1}{12}$



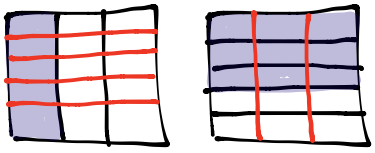
$\frac{12}{12}$ $\frac{1}{12}$

b) $\frac{3}{4}+\frac{2}{3}=\frac{9}{12}+\frac{8}{12}=\frac{17}{12}=1\frac{5}{12}$

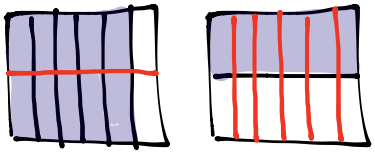


$\frac{12}{12}$ $\frac{5}{12}$

c) $\frac{1}{3}+\frac{3}{5}=\frac{5}{15}+\frac{9}{15}=\frac{14}{15}$

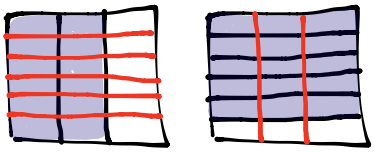


d) $\frac{5}{6}+\frac{1}{2}=\frac{10}{12}+\frac{6}{12}=\frac{16}{12}=1\frac{4}{12}$ or $1\frac{1}{3}$



$\frac{12}{12}$ $\frac{4}{12}$

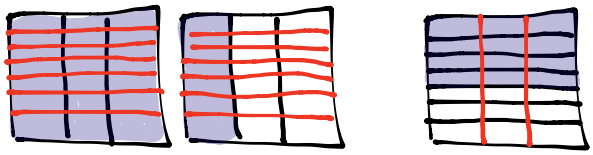
e) $\frac{2}{3}+\frac{5}{6}=\frac{12}{18}+\frac{15}{18}=\frac{27}{18}=1\frac{9}{18}$



$\frac{18}{18}$ $\frac{9}{18}$

$1\frac{9}{18}=1\frac{1}{2}$

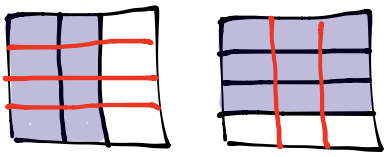
f) $\frac{4}{3}+\frac{4}{7}=\frac{28}{21}+\frac{12}{21}=\frac{40}{21}=\frac{21}{21}+\frac{19}{21}=1\frac{19}{21}$



Solve the following problems. Draw a picture and/or write the number sentence that proves the answer. Simplify your answer.

2. Sam made 2/3 liter of punch and 3/4 liter of tea to take to a party. How many liters of beverages did Sam bring to the party?

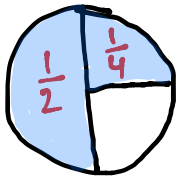
$\frac{2}{3} + \frac{3}{4} = \frac{8}{12} + \frac{9}{12} = \frac{17}{12} = \frac{12}{12} + \frac{5}{12} = 1\frac{5}{12}$



Sam brought $1\frac{5}{12}$ liters of beverages to the party.

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

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



$\frac{5}{8} + \frac{3}{4} = \frac{20}{32} + \frac{24}{32} = \frac{44}{32} = \frac{32}{32} + \frac{12}{32} = 1\frac{12}{32}$

$1\frac{12}{32} = 1\frac{6}{16} = 1\frac{3}{8}$

Mr. Sinofsky used $1\frac{3}{8}$ tanks of gas.