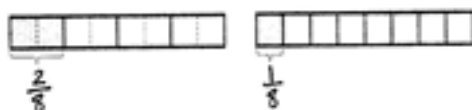


Name Jack

Date _____

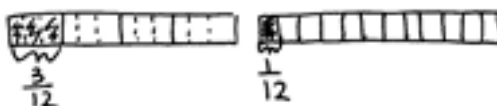
1. Use a tape diagram to represent each addend. Decompose one of the tape diagrams to make like units. Then write the complete number sentence. Problem (a) is partially completed.

a. $\frac{2}{4} + \frac{1}{8}$



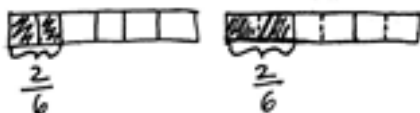
$$\frac{2}{8} + \frac{1}{8} = \frac{3}{8}$$

b. $\frac{3}{4} + \frac{1}{12}$



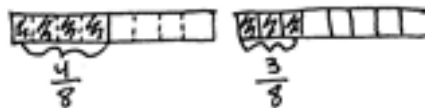
$$\frac{3}{12} + \frac{1}{12} = \frac{4}{12}$$

c. $\frac{2}{6} + \frac{2}{6}$



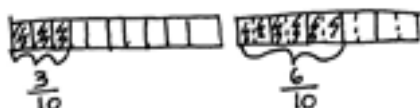
$$\frac{2}{6} + \frac{2}{6} = \frac{4}{6}$$

d. $\frac{1}{2} + \frac{3}{8}$



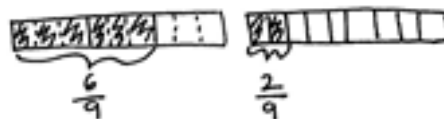
$$\frac{4}{8} + \frac{3}{8} = \frac{7}{8}$$

e. $\frac{3}{10} + \frac{3}{10}$



$$\frac{3}{10} + \frac{6}{10} = \frac{9}{10}$$

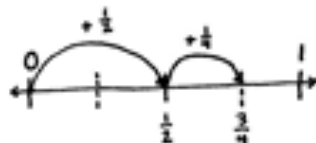
f. $\frac{2}{3} + \frac{2}{9}$



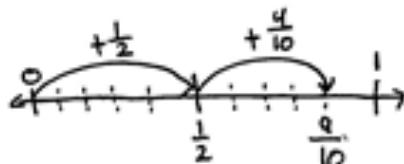
$$\frac{6}{9} + \frac{2}{9} = \frac{8}{9}$$

2. Estimate to determine if the sum is between 0 and 1 or 1 and 2. Draw a number line to model the addition. Then write a complete number sentence. Problem (a) has been completed for you.

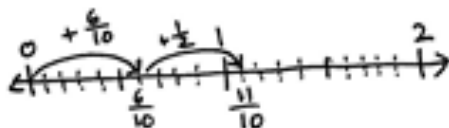
a. $\frac{1}{2} + \frac{1}{4} = \frac{2}{4} + \frac{1}{4} = \frac{3}{4}$



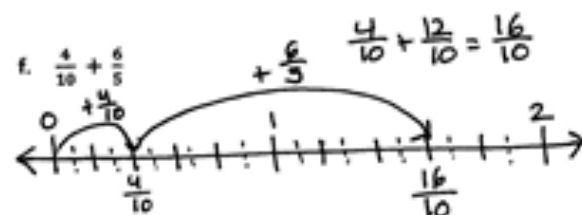
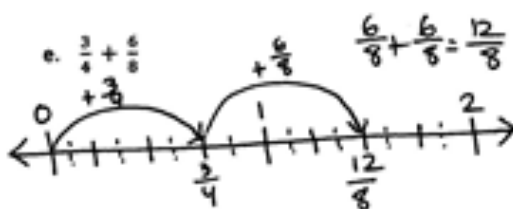
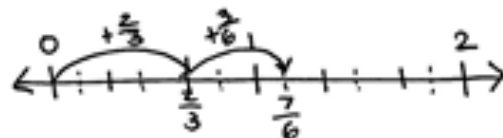
b. $\frac{1}{2} + \frac{4}{10} = \frac{5}{10} + \frac{4}{10} = \frac{9}{10}$



c. $\frac{6}{10} + \frac{1}{2} = \frac{6}{10} + \frac{5}{10} = \frac{11}{10}$



d. $\frac{2}{3} + \frac{3}{6} = \frac{4}{6} + \frac{3}{6} = \frac{7}{6}$



3. Solve the following addition problem without drawing a model. Show your work.

$$\frac{2}{3} + \frac{4}{6}$$

$$\frac{2}{3} = \frac{2 \times 2}{3 \times 2} = \frac{4}{6}$$

$$\frac{4}{6} + \frac{4}{6} = \frac{8}{6}$$