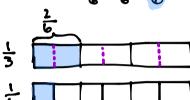
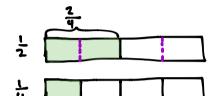
1. Use a tape diagram to represent each addend. Decompose one of the tape diagrams to make like units. Then, write the complete number sentence.

a.
$$\frac{1}{3} + \frac{1}{6}$$

$$= \frac{2}{6} + \frac{1}{6} = \frac{3}{6}$$

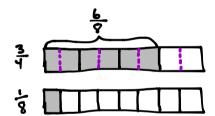


b.
$$\frac{1}{2} + \frac{1}{4} = \frac{2}{4} + \frac{1}{4} = \frac{3}{4}$$



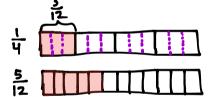
c.
$$\frac{3}{4} + \frac{1}{8}$$

$$= \frac{6}{8} + \frac{1}{8} = \frac{7}{8}$$

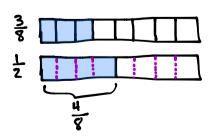


d.
$$\frac{1}{4} + \frac{5}{12}$$

= $\frac{3}{12} + \frac{5}{17} = \frac{8}{12}$

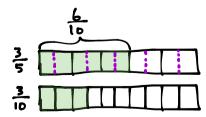


e.
$$\frac{3}{8} + \frac{1}{2}$$
= $\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$

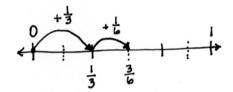


f.
$$\frac{3}{5} + \frac{3}{10}$$

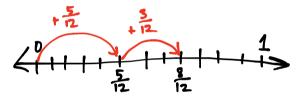
= $\frac{6}{10} + \frac{3}{10} = \frac{9}{10}$



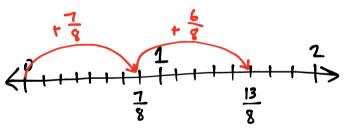
- 2. Estimate to determine if the sum is between 0 and 1 or 1 and 2. Draw a number line to model the addition. Then, write a complete number sentence. The first one has been completed for you.
 - a. $\frac{1}{3} + \frac{1}{6}$ $\frac{2}{6} + \frac{1}{6} = \frac{3}{6}$



c. $\frac{5}{12} + \frac{1}{4}$ = $\frac{5}{12} + \frac{3}{12} = \frac{8}{12}$

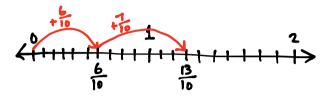


e. $\frac{7}{8} + \frac{3}{4}$ $= \frac{7}{8} + \frac{6}{9} = \frac{13}{8}$



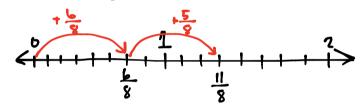
b. $\frac{3}{5} + \frac{7}{10}$

$$=\frac{6}{10}+\frac{7}{10}=\frac{13}{10}$$



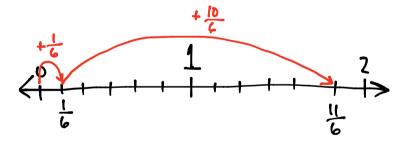
d.
$$\frac{3}{4} + \frac{5}{8}$$

= $\frac{6}{9} + \frac{5}{8} = \frac{11}{8}$



f.
$$\frac{1}{6} + \frac{5}{3}$$

= $\frac{1}{6} + \frac{10}{6} = \frac{11}{6}$



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

$$\frac{1}{3} = \frac{1 \times 2}{3 \times 2} = \frac{2}{6}$$

$$= \frac{5}{6} + \frac{1}{3}$$

$$= \frac{5}{6} + \frac{2}{6} = \frac{7}{6}$$