

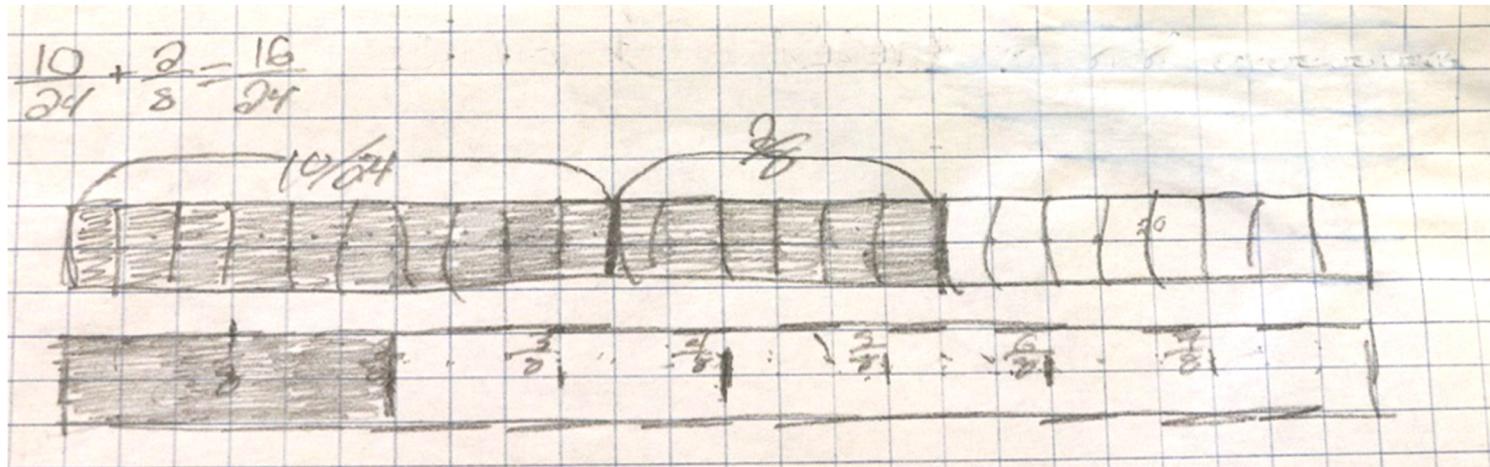
# CREATING SUMS

## OPERATION E

Add and subtract fractions with unlike denominators (e.g., 2 and 7) using models and symbols

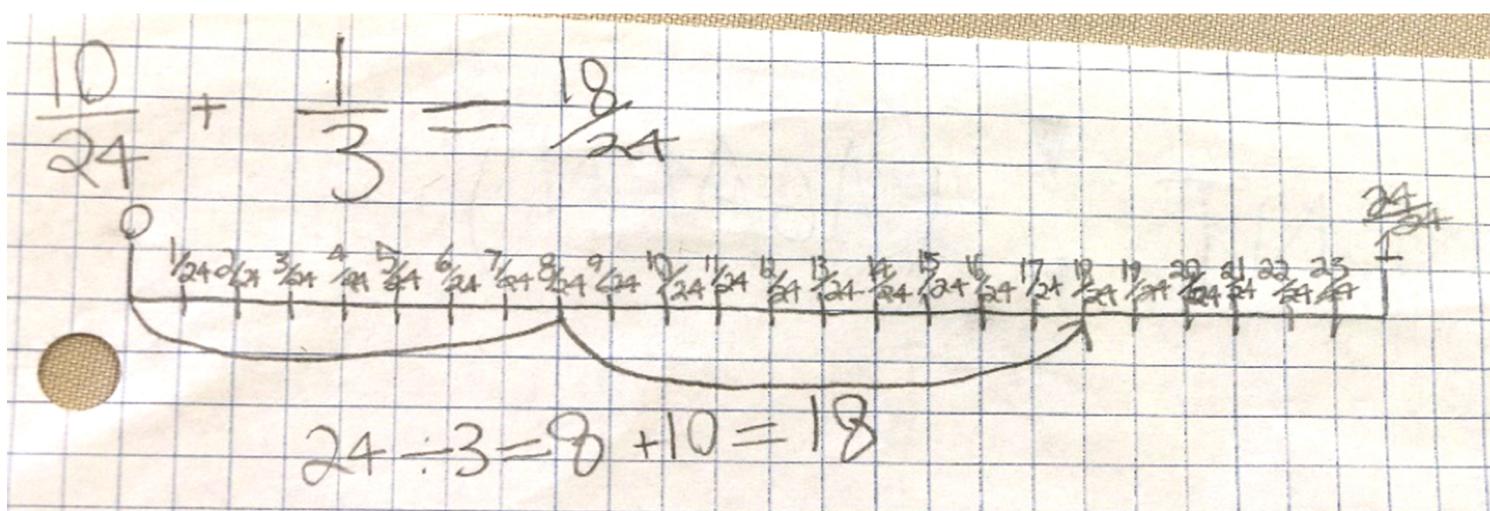
These samples depict strategies and models that students may use to respond to the various prompts included in this task.

Prompt: Choose two fractions that combined have a sum of  $\frac{3}{4}$



### Sample 3

This sample also shows a representation that is stacked to show equivalency. The student has represented both fractions in their equation on a single linear model. They have shaded ten  $\frac{1}{24}$  units and then added an additional six  $\frac{1}{24}$  units that they have identified as  $\frac{2}{8}$ . The second linear model shows how  $\frac{2}{8}$  is equivalent to  $\frac{6}{24}$ . The student solution clearly represents the sum of  $\frac{16}{24}$  or  $\frac{3}{4}$ .



### Sample 4

The student has equipartitioned the number line into 24 units. Starting at zero, the student has merged eight  $\frac{1}{24}$  units to show  $\frac{1}{3}$  and then added  $\frac{10}{24}$  to find the sum of  $\frac{18}{24}$ . The student might be encouraged to identify one-third sections on the number line to enhance the clarity of the solution.