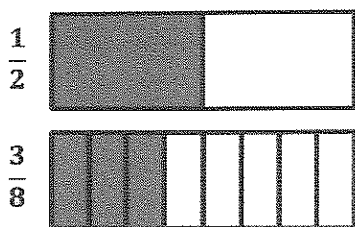


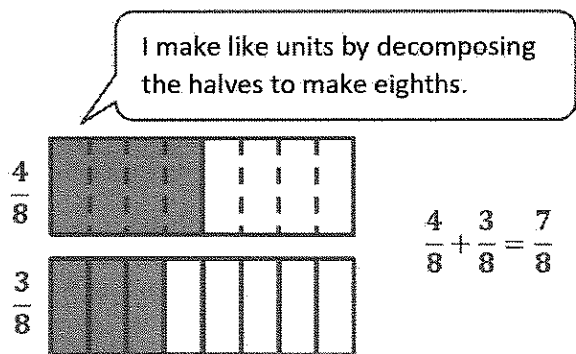
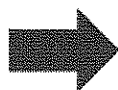
## G4-M5-Lesson 20

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.

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



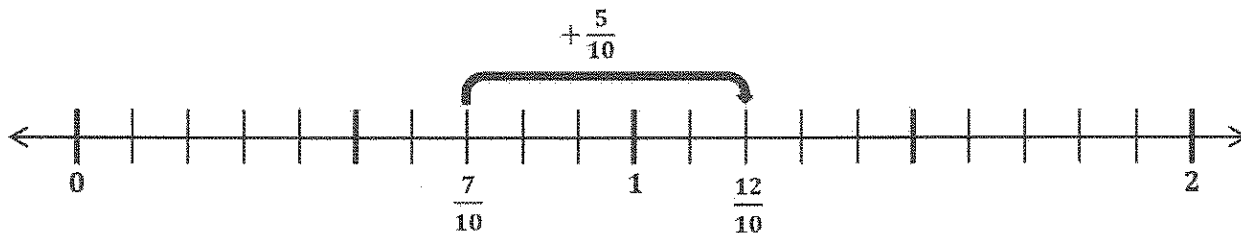
I draw tape diagrams to model each addend.



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.

$$\frac{7}{10} + \frac{1}{2}$$

$\frac{7}{10}$  is a little bit more than  $\frac{1}{2}$ . When I add a fraction that is a little bigger than  $\frac{1}{2}$  to  $\frac{1}{2}$ , I should get a total that is between 1 and 2.



$$\frac{7}{10} + \frac{5}{10} = \frac{12}{10}$$

To make like units in order to add, I decompose halves. The number line and the number sentence show the total,  $\frac{12}{10}$ , which is between 1 and 2.

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

$$\frac{2}{3} + \frac{1}{9}$$

$$\frac{2}{3} = \frac{2 \times 3}{3 \times 3} = \frac{6}{9}$$

I can decompose thirds to make ninths by multiplying the numerator and denominator of  $\frac{2}{3}$  by 3.

$$\frac{6}{9} + \frac{1}{9} = \frac{7}{9}$$

Now, I have like units, ninths, and I can add.