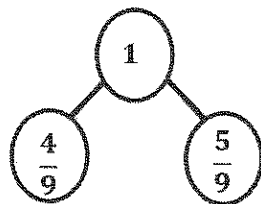
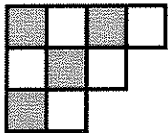


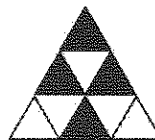
G3-M5-Lesson 8

1. Show a number bond representing what is shaded and unshaded in the figure. Draw a different model that would be represented by the same number bond.

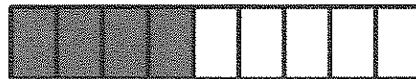


I can draw a number bond that shows 1 whole broken into 2 parts. One part shows how much of the whole is shaded: $\frac{4}{9}$. The other part shows how much of the whole is unshaded: $\frac{5}{9}$. Together, $\frac{4}{9}$ and $\frac{5}{9}$ make 1 whole.

How would I label the number bond if no parts of the whole were shaded? I would still use 1 to label the whole. I could label the shaded parts $\frac{0}{9}$ and the unshaded parts $\frac{9}{9}$. Together, $\frac{0}{9}$ and $\frac{9}{9}$ make 1 whole.

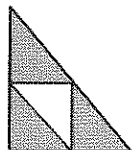


I can draw this shape to show 1 whole with $\frac{4}{9}$ shaded and $\frac{5}{9}$ unshaded. It can be represented using the same number bond. Lots of other models could work too. Here is one example:

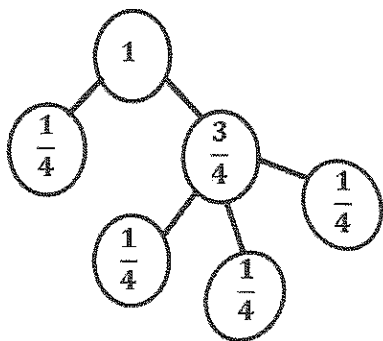


This first part is just like Problem 1.

2. Draw a number bond with 2 parts showing the shaded and unshaded fractions of each figure. Decompose both parts of the number bond into unit fractions.



The shaded part of this figure is $\frac{3}{4}$, and the unshaded part is $\frac{1}{4}$.



I can draw a number bond with parts of $\frac{1}{4}$ and $\frac{3}{4}$.
I know that decomposing is taking apart.
 $\frac{1}{4}$ is already a unit fraction, but $\frac{3}{4}$ is a non-unit fraction. I can decompose $\frac{3}{4}$ into 3 copies of $\frac{1}{4}$.
Now both parts of my number bond are written as unit fractions.

I can check my work by looking at all of the unit fractions. There are 4 copies of $\frac{1}{4}$, which is the same as $\frac{4}{4}$, or 1 whole.