Note *This page includes selected example answers and approaches. Other approaches and answers may be possible and appropriate.*

Mark mixes 5 cups of blue paint with 2 cups of white paint to make *Sky Blue* paint.

Amy wants a sample of the paint to try on her walls.

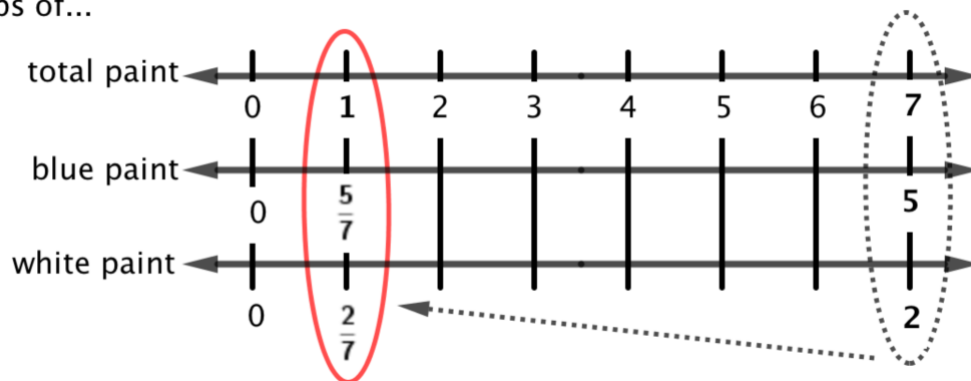1. Mark takes out 1 cup of the *Sky Blue* paint and gives it to Amy.

   How much white paint is in the 1 cup?

   How much blue paint is in the 1 cup?

   Make a visual representation to solve the problem.

   Example: make number lines for the number of cups of total, blue, and white cups of paint; divide them all into 7 equally-sized sections and find the amounts for 1 total cup of paint.

   There is $\frac{2}{7}$ cup of white paint in 1 cup of Sky Blue paint.

   There is $\frac{5}{7}$ cup of blue paint in 1 cup of Sky Blue paint.

2. Mark takes $\frac{1}{2}$ cup of the original *Sky Blue* paint mixture for a sample.

   How much white paint is in the $\frac{1}{2}$ cup?

   Explain and/or show how you know the amount of white paint in the $\frac{1}{2}$ cup.

   Example: based on the number lines above, but looking only at the total cups and white cups of paint, divide the distance between 0 and 1 total cup of paint in half and find the amount of white paint on the other number line at the same location.

   There is $\frac{1}{7}$ **cup of white paint** in $\frac{1}{2}$ cup of Sky Blue paint.