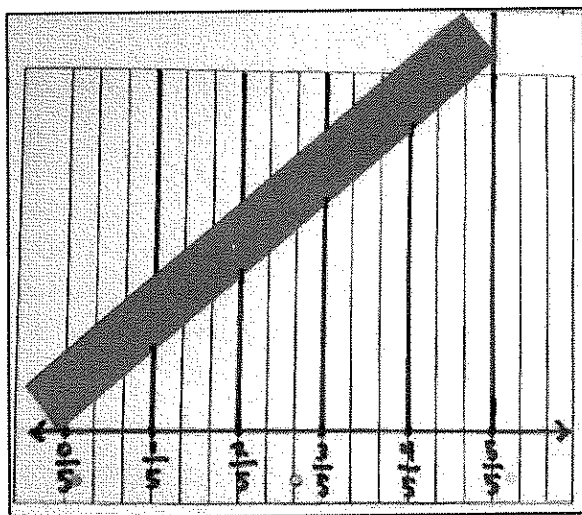


G3-M5-Lesson 30

Theodore precisely partitions his red strip into fifths using the number line method below. Describe step by step how Theodore partitions his strip into equal units using only a piece of notebook paper and a straight edge.



First, Theodore uses the paper's margin line to draw a number line. He then labels fifths on his number line from 0 to 1. He uses 3 spaces for each fifth. Next, at each fifth, he draws vertical lines up from the number line to the top of the paper. He then takes his red strip and angles it so that the left end touches the 0 endpoint on the number line, and the right end touches the line at 5 fifths, or 1. Finally, he marks on the red strip where the vertical points touch it. This creates equal units on the red strip. Theodore can double check by measuring them with a ruler.

Using this method, I can make fractional units precisely without a ruler. If I want to partition longer strips, like a meter strip, I tape more lined papers above the first one so that I can make a sharper angle with the longer strip.