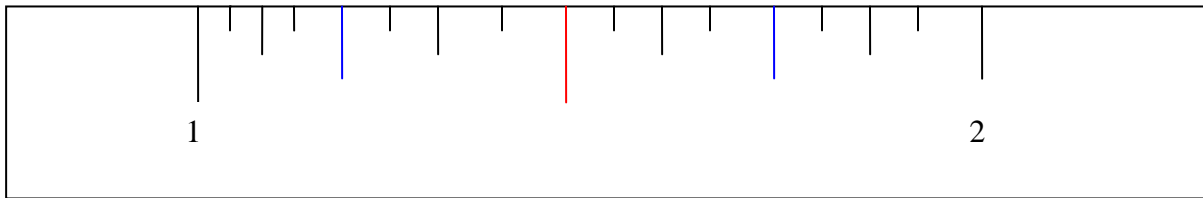


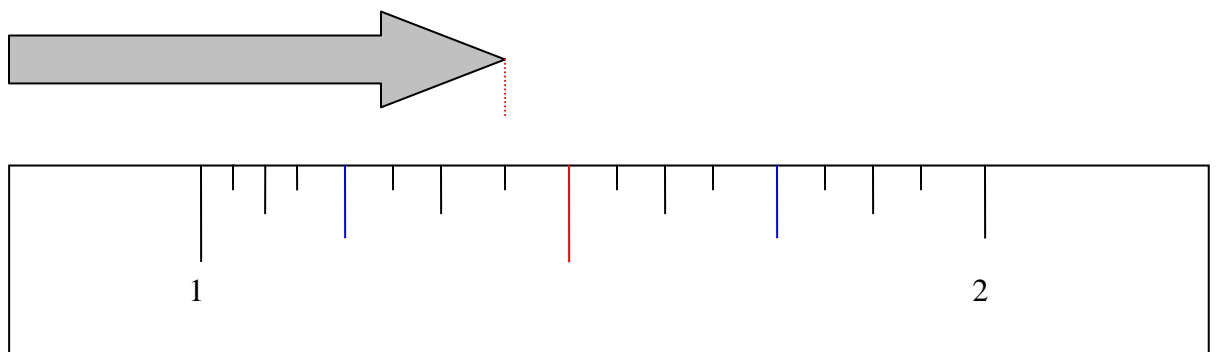
Measurement (Standard): The standard measurement system consists of inches, feet, yards, and miles. There are some basic conversions that must be memorized:

- There are 12 inches in one foot (length of a ruler)
- There are 3 feet in one yard
- If there are 12 inches in a foot and 3 feet in a yard, there are 36 inches in a yard.
- There are 5,280 feet in a mile.
- If there are 5,280 feet in a mile, you would divide by 3 to find out how many yards there would be. ($5,280 \div 3 = 1,760$ yards in a mile)

The most common task associated with standard measurement involves using inches on a ruler or measuring tape. The real world applications of using the standard measurement system are numerous: carpentry, construction, interior design, etc. The first step to using the standard measurement system is learning how to read a ruler.



There are 16 lines between inches. The red line represents halfway (the 8th line out of 16). The blue lines represent $\frac{1}{4}$ and $\frac{3}{4}$. (The 4th line out of 16 and the 12th line out of 16). Reading a ruler is as simple as counting which out of 16 lines something stops on and then reducing. For example, the arrow show below stops on the 7th line. $\frac{7}{16}$ cannot be reduced, so the length of the arrow is $1 \frac{7}{16}$ inches.



TASK #1: Your first task is to draw lines with the following lengths:

4 $\frac{1}{2}$ inches

3 $\frac{1}{4}$ inches

6 $\frac{3}{16}$ inches

5 $\frac{5}{8}$ inches

4 $\frac{11}{16}$ inches

TASK #2: Now that you can draw individual lines to the appropriate length, it's time to try a more advanced drawing. You need to draw a rectangle where the length is 2 $\frac{1}{8}$ inches and the width is exactly twice as much. You will need to make sure you have a plan to fit the rectangle in the space provided. Good luck!

TASK #3: Time to put your knowledge to real practice! Get a tape measure from Mr. G. Your task is to measure the length of the hallway starting at the shop and ending at the library. Once you have a total (in inches), please convert that number into feet. Write your answers down on this paper.

_____ inches

_____ feet

