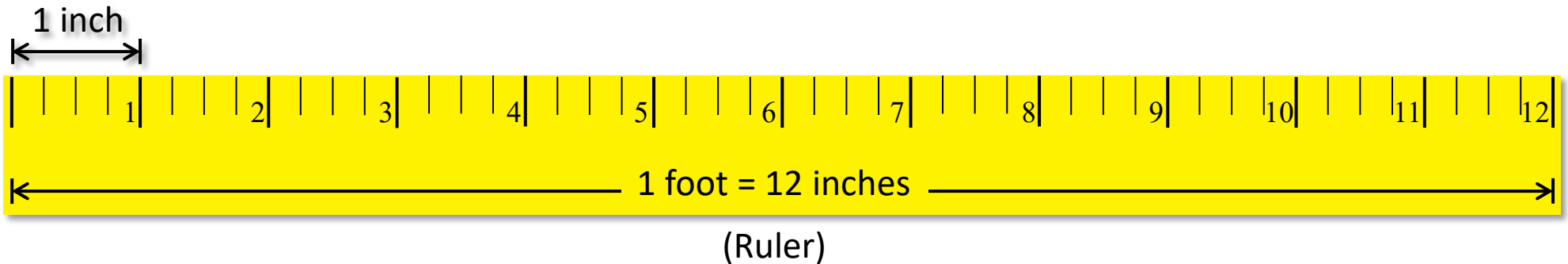


## 2.- Fractions and Decimals

# Converting Inches to Feet in Decimals



One foot of length is made of 12, 1-inch segments. So, we could write each inch segment of the foot as a fraction of a foot as follows:

	As fraction	Solving division (fraction) To closest 100 <sup>th</sup> with rounding
1 inch =	$\frac{1}{12}$ ft =	.08'
2 inch =	$\frac{2}{12}$ ft =	.17' (Rounded .166' to .17')
		.
		.
		.
11 inch =	$\frac{11}{12}$ ft =	.92' (Rounded .916' to .92')
12 inch =	$\frac{12}{12}$ ft =	1'



# Converting measurements in Feet-inches to Feet in Decimals

	As fraction	Solving division (fraction) To closest 100 <sup>th</sup> with rounding
6ft 7 in =	$6\text{ft} + \frac{7}{12}\text{ft} =$	6.58' (Rounded .583' to .58')
9ft 4 in =	$9\text{ft} + \frac{4}{12}\text{ft} =$	9.33' (Rounded .333' to .33')
33' 5" =	$33' + \frac{5}{12}\text{ft} =$	33.42' (Rounded .416' to .42')
9' 10" =	$9' + \frac{10}{12}\text{ft} =$	9.83' (Rounded .833' to .83')

# Conversion exercise

Calculate the value in fractional feet. (only use up to 3 decimal values for your answer. There is no rounding.)

$$6'' = \underline{\hspace{2cm}}$$

$$3'' = \underline{\hspace{2cm}}$$

$$4' 7'' = \underline{\hspace{2cm}}$$

$$8' 9'' = \underline{\hspace{2cm}}$$