How to "Read" and Use an Architect's Scale

The $\frac{1}{4}$ tells us that the *actual* distance between 0 and the twelfth line is $\frac{1}{4}''$; and that $\frac{1}{4}'' = 1' - 0''$. Knowing that twelve inches equal one foot

and using dimensional analysis, we can determine that each of the 12 lines to the *right* of 0 represents one inch.



(illustration not to scale)



Now, look at the side that reads $1\frac{1}{2}$ on the left end and 3 on the right end; we'll start with the left end of this side is the mixed number $1\frac{1}{2}$, which means the scale $1\frac{1}{2}$ = 1' - 0". There are 48 lines to the *left* of 0.



(illustration not to scale)