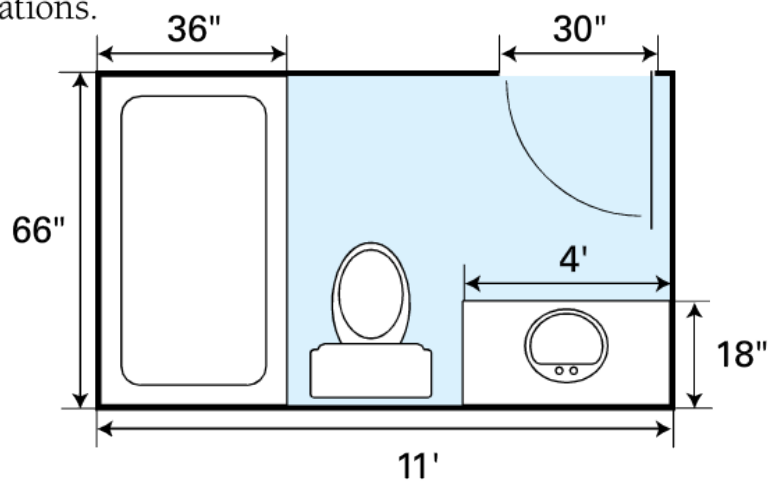
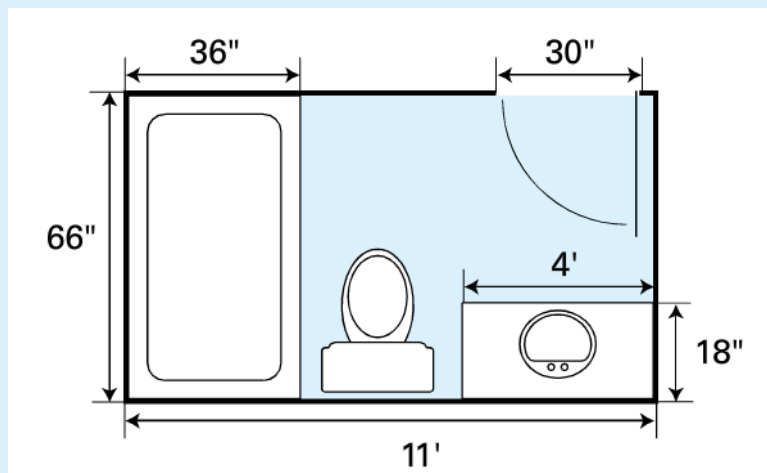


A finishing carpenter is working on a partial home renovation project, and the homeowner has asked the carpenter how much it would cost to replace the baseboards in the bathroom. The floor plan of the bathroom is shown on the right. The carpenter bills his time at a rate of \$45.00/h and he charges a markup of 15% on materials. Baseboard costs \$6.50 a linear foot and the carpenter estimates it will take him two-and-a-half hours. How much does he tell the homeowner it will cost? List any assumptions you made in your calculations.





Convert 11' and 4'

**number x inches
feet**

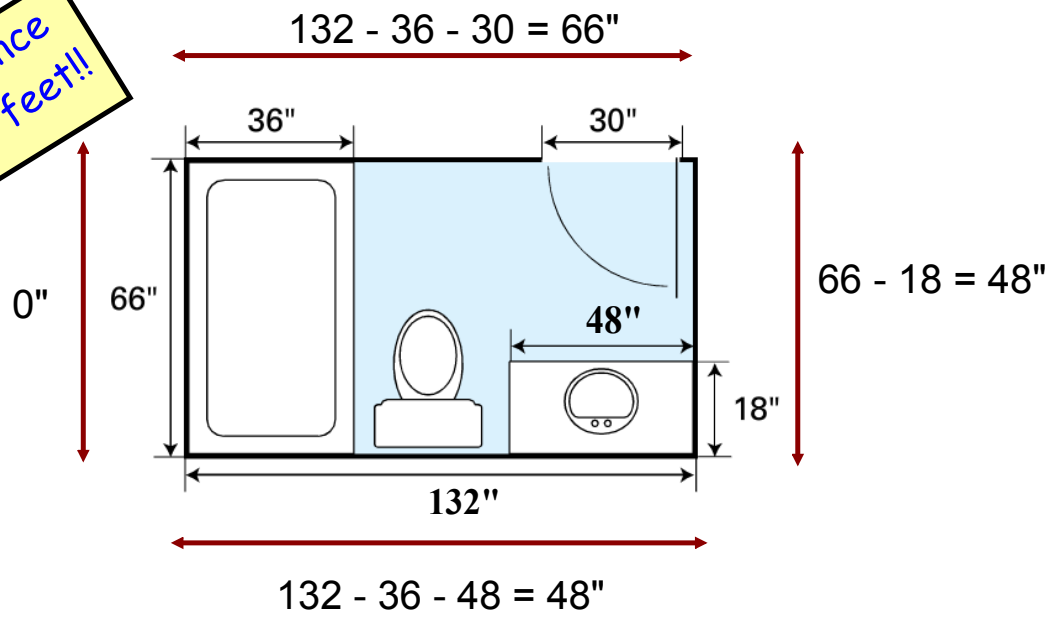
$$= 11 \times 12/1$$

$$= 132''$$

$$4 \times 12/1$$

$$= 48''$$

Total Distance
Needed in feet!!



$$66'' + 48'' + 48'' + 0'' = 162''$$

$$162 \times \frac{1}{12}$$

$$12$$

$$= 13.5 \text{ ft}$$

$$\text{Cost of Baseboard} = 6.50 \times 1.15 = \$7.48 / \text{ft}$$

$$\text{Cost of Baseboard: } 13.5\text{ft} \times \$7.48 = \$100.98$$

$$\text{Cost of Labor: } 2.5\text{Hr} \times 45 = \$112.50$$

$$\text{Total: } \$100.98 + \$112.50 = \$213.48$$