L1: Total length $=$ Rung Height $* \#$ of Rungs + Gap Height $* \#$ of Gaps + Top Gap + Bottom Gap

$$
\begin{gathered}
\text { Total length }=30 * 258+270 * 257+125+125 \\
\text { Total length }=7,740+69,390+125+125 \\
\text { Total length }=77,380 \mathrm{~mm}=77.38 \mathrm{~m}
\end{gathered}
$$

L2: Using the total height calculated in the L1 question, Justin needs to climb 77.38 m .

$$
\begin{gathered}
\text { Rate }=\frac{\text { Distance }}{\text { Time }} \\
3 \mathrm{~m} / \mathrm{min}=\frac{77.38 \mathrm{~m}}{\text { Time }} \\
25.8 \mathrm{~min}=\frac{77.38 \mathrm{~m}}{3 \mathrm{~m} / \mathrm{min}}
\end{gathered}
$$

So, it will take Justin 25.8 minutes to complete the climb.

A One Energy technician climbing the tower ladder.


