

## 2020A3

## (2D GEOMETRY, RATES)

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

$$\text{Total length} = 30 * 258 + 270 * 257 + 125 + 125$$

$$\text{Total length} = 7,740 + 69,390 + 125 + 125$$

$$\text{Total length} = 77,380 \text{ mm} = 77.38 \text{ m}$$

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

$$\text{Rate} = \frac{\text{Distance}}{\text{Time}}$$

$$3 \text{ m/min} = \frac{77.38 \text{ m}}{\text{Time}}$$

$$25.8 \text{ min} = \frac{77.38 \text{ m}}{3 \text{ m/min}}$$

*A One Energy technician climbing the tower ladder.*

