

Quiz #1

We have a car that starts at rest. It accelerates for 20 seconds at a rate of 10 ft/s². Calculate the car's velocity after 20 seconds. Use the expression below for the calculation.

$$v = 0.5at^2$$

where $v = \text{velocity}$, $a = \text{acceleration}$, $t = \text{time}$

1. Initialize the variable `time`. It should have a value of 20.
2. Initialize the variable `accel`. It should have a value of 10.
3. Calculate velocity – create an expression to perform the calculation in the equation above.

