

## Holt Physics

**Problem 2E****FINAL VELOCITY AFTER ANY DISPLACEMENT****PROBLEM**

In 1970, a rocket-powered car called *Blue Flame* achieved a maximum speed of  $1.00 \times 10^3$  km/h (278 m/s). Suppose the magnitude of the car's constant acceleration is  $5.56 \text{ m/s}^2$ . If the car is initially at rest, what is the distance traveled during its acceleration?

**SOLUTION****1. DEFINE**

Given:

$$v_i = 0 \text{ m/s}$$

$$v_f = 278 \text{ m/s}$$

$$a = 5.56 \text{ m/s}^2$$

Unknown:

$$\Delta x = ?$$

**2. PLAN**

**Choose an equation(s) or situation:** Use the equation for the final velocity after any displacement.

$$v_f^2 = v_i^2 + 2a\Delta x$$

**Rearrange the equation(s) to isolate the unknown(s):**

$$\Delta x = \frac{v_f^2 - v_i^2}{2a}$$

**3. CALCULATE**

**Substitute the values into the equation(s) and solve:**

$$\Delta x = \frac{\left(278 \frac{\text{m}}{\text{s}}\right)^2 - \left(0 \frac{\text{m}}{\text{s}}\right)^2}{(2)\left(5.56 \frac{\text{m}}{\text{s}^2}\right)} = \boxed{6.95 \times 10^3 \text{ m}}$$

**4. EVALUATE**

Using the appropriate kinematic equation, the time of travel for *Blue Flame* is found to be 50.0 s. From this value for time the distance traveled during the acceleration is confirmed to be almost 7 km. Once the car reaches its maximum speed, it travels about 16.7 km/min.

**ADDITIONAL PRACTICE**

1. In 1976, Kitty Hambleton of the United States drove a rocket-engine car to a maximum speed of 965 km/h. Suppose Kitty started at rest and underwent a constant acceleration with a magnitude of  $4.0 \text{ m/s}^2$ . What distance would she have had to travel in order to reach the maximum speed?
2. With a cruising speed of  $2.30 \times 10^3$  km/h, the French supersonic passenger jet Concorde is the fastest commercial airplane. Suppose the landing speed of the Concorde is 20.0 percent of the cruising speed. If the plane accelerates at  $-5.80 \text{ m/s}^2$ , how far does it travel between the time it lands and the time it comes to a complete stop?

# Holt Physics Chapter 2 Quizzes

**Guillaume Favre**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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