

4. The acceleration is defined as the change in velocity divided by the elapsed time or

$$a = \Delta v / t$$

$$a = (v_2 - v_1) / t$$

$$a = (7.0 \text{ m/s} - 0 \text{ m/s}) / 4.5 \text{ s}$$

$$a = 1.6 \text{ m/s}^2$$