

Acceleration

1. Define acceleration in your own words. What does it mean if an object decelerates?

= Acceleration is an increase of speed for an object over a period of time.
Deceleration is a decrease in speed for an object over a period of time.

2. While traveling along a highway a driver slows from 24 m/sec to 15 m/s in 12 seconds. What is the automobile's acceleration?

$$a = \frac{v_2 - v_1}{t} = \frac{15 \text{ m/s} - 24 \text{ m/s}}{12 \text{ s}} = -0.75 \text{ m/s}^2$$

3. A parachute on a racing dragster opens and changes the speed of the car from 85 m/s to 45 m/s in a period of 4.5 seconds. What is the acceleration of the dragster?

$$a = \frac{v_2 - v_1}{t} = \frac{45 \text{ m/s} - 85 \text{ m/s}}{4.5 \text{ s}} = -8.89 \text{ m/s}^2$$

4. A helicopter's speed increases from 25 m/s to 60 m/s in 5 seconds. What is the acceleration of this helicopter?

$$a = \frac{v_2 - v_1}{t} = \frac{60 \text{ m/s} - 25 \text{ m/s}}{5 \text{ s}} = 7.0 \text{ m/s}^2$$

5. The cheetah, which is the fastest land mammal, can accelerate from 0.0 mi/hr to 70.0 mi/hr in 3.0 seconds. What is the acceleration of the cheetah (in units of mph/sec)?

$$a = \frac{v_2 - v_1}{t} = \frac{70.0 \text{ mph} - 0.0 \text{ mph}}{3.0 \text{ s}} = 23.3 \text{ mph/s}$$

6. A car traveling at a speed of 30.0 m/s encounters an emergency and comes to a complete stop. How much time will it take for the car to stop if its deceleration is -4.0 m/s^2 ?

$$t = \frac{v_2 - v_1}{a} = \frac{0 \text{ m/s} - 30.0 \text{ m/s}}{-4.0 \text{ m/s}^2} = 7.5 \text{ s}$$

7. A cart rolling down an incline for 5.0 seconds has an acceleration of 4.0 m/s^2 . If the cart has a beginning speed of 2.0 m/s, what is its final speed?

$$v_2 = at + v_1 = (4.0 \text{ m/s}^2)(5.0 \text{ s}) + 2.0 \text{ m/s} = 22.0 \text{ m/s}$$

8. If a car can go from 0.0 to 60.0 mi/hr in 8.0 seconds, what would be its final speed after 5.0 seconds if its starting speed were 50.0 mi/hr? (Hint: determine the car's acceleration)

$$a = \frac{v_2 - v_1}{t} = \frac{60.0 \text{ mph} - 0.0 \text{ mph}}{8.0 \text{ s}} = 7.5 \text{ mph/s}$$

$$v_2 = at + v_1 = (7.5 \text{ mph/s})(5.0 \text{ s}) + 50.0 \text{ mph} = 87.5 \text{ mph}$$

Acceleration Worksheet Chapter 1 Pages 34 38 Answers

Karin Nielsen-Saines



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