

2

Motion in One Dimension

CHAPTER OUTLINE

- 2.1 Position, Velocity, and Speed
- 2.2 Instantaneous Velocity and Speed
- 2.3 Analysis Model: Particle Under Constant Velocity
- 2.4 Acceleration
- 2.5 Motion Diagrams
- 2.6 Analysis Model: Particle Under Constant Acceleration
- 2.7 Freely Falling Objects
- 2.8 Kinematic Equations Derived from Calculus

* An asterisk indicates a question or problem new to this edition.

ANSWERS TO OBJECTIVE QUESTIONS

OQ2.1 Count spaces (intervals), not dots. Count 5, not 6. The first drop falls at time zero and the last drop at $5 \times 5 \text{ s} = 25 \text{ s}$. The average speed is $600 \text{ m} / 25 \text{ s} = 24 \text{ m/s}$, answer (b).

OQ2.2 The initial velocity of the car is $v_0 = 0$ and the velocity at time t is v . The constant acceleration is therefore given by

$$a = \frac{\Delta v}{\Delta t} = \frac{v - v_0}{t - 0} = \frac{v - 0}{t} = \frac{v}{t}$$

and the average velocity of the car is

$$\bar{v} = \frac{(v + v_0)}{2} = \frac{(v + 0)}{2} = \frac{v}{2}$$

The distance traveled in time t is $\Delta x = \bar{v}t = vt/2$. In the special case where $a = 0$ (and hence $v = v_0 = 0$), we see that statements (a), (b), (c), and (d) are all correct. However, in the general case ($a \neq 0$, and hence

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