

Review questions

2. What two units of measurement are necessary for describing speed?

Ans. Distance and time.

3. What kind of speed is registered by an automobile speedometer?

Ans. Instantaneous speed.

5. What is the average speed in kilometers per hour for a horse that gallops a distance of 15 km in a time of 30 min?

Ans.  $\frac{15\text{km}}{\frac{1}{2}\text{hr}} = 30 \frac{\text{km}}{\text{hr}}$

6. How far does a horse travel if it gallops at an average speed of 25 km/hr for 30 min.?

Ans. Our distance rule is given by  $\Delta X = V_o t + \frac{1}{2} a t^2$ . Since there is no acceleration, the rule simplifies to  $\Delta X = V_o t = 25 \frac{\text{km}}{\text{hr}} (.5\text{hr}) = 12.5\text{km}$

7. Distinguish between speed and velocity.

Ans. Speed is the rate at which an object changes its position. Velocity is the speed and direction of an object.

8. If a car moves with constant velocity, does it also move with constant speed?

Ans. Yes.

9. If a car is moving at 90 km/hr and it rounds a corner, also at 90 km/hr, does it maintain a constant speed? A constant velocity?

Ans. It maintains a constant speed but its velocity is changing because its direction of travel is changing.

10. Distinguish between velocity and acceleration.

Ans. Velocity is the speed and direction of an object. Acceleration is the rate at which an objects changes its velocity.

11. What is the acceleration of a car that increases its velocity from 0 to 100 km/hr in 10 seconds?

Ans.  $a = \frac{\Delta V}{\Delta t} = \frac{V_f - V_i}{\Delta t} = \frac{100\text{km/hr}}{10\text{sec}} = \frac{10\text{km/hr}}{\text{sec}}$  forward.

# Conceptual Physics Chapter 3 Answers

**Raymond A. Serway, John R. Gordon**



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