

# Download File PDF Prentice Hall Conceptual Physics Chapter Assessment Answers

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Conceptual Physics -- Review Worksheet SOLUTIONS Name \_\_\_\_\_

- 1) Name two possible units for speed...  $\text{m/s}$ ,  $\text{mph}$ ,  $\text{km/hr}$ ...
- 2) Does a speedometer in a car tell you instantaneous speed or average speed? **instantaneous**
- 3) In a car accelerating if it travels 6 meters in the first second of travel, 6 meters again during the 2<sup>nd</sup> second of travel, and 6 meters again during the third second? Yes or No? **No**
- 4) A car starts from rest and after 5 seconds it is moving at 30  $\text{m/s}$ . What is the car's average acceleration?  **$6 \text{ m/s}^2$**
- 5) When we talk about speed normally, that usually means the speed of an object relative to **Earth**.
- 6) If you drop a feather and a coin at the same time in a tube **with no air**, which will reach the bottom of the tube first? **Will reach at same time**
- 7) Suppose you take a trip that covers 300 km and takes 2 hours to make. What is your average speed in  $\text{km/hr}$ ? **150  $\text{km/hr}$**
- 8) A ball is thrown straight up. At the top of its path what is its instantaneous speed? **0  $\text{m/s}$**
- 9) If an object is thrown straight up what is its acceleration at the top of its path?  **$10 \text{ m/s}^2$**
- 10) What is the value for the acceleration of gravity on Earth?  **$10 \text{ m/s}^2$**
- 11) A car has an acceleration of  $3 \text{ m/s}^2$ . Assuming the car starts from rest, how much time does it need to accelerate to a speed of 30  $\text{m/s}$ ? **10 seconds**
- 12) A freely falling object starts from rest. After falling for 2 seconds what will be its speed? **20  $\text{m/s}$**
- 13) If you drop a feather and a coin at the same time in a vacuum tube, which will reach the bottom of the tube first? **Same time**
- 14) If a projectile is fired straight up at a speed of 20  $\text{m/s}$ , what would be the total time required to make it back to its starting point? **4 seconds**
- 15) Draw a velocity time graph in which there is a constant positive velocity. **Straight horizontal line**
- 16) Draw a velocity time graph in which there is a constant positive acceleration. **straight diagonal line**
- 17) In equations what symbol is used for speed? **v**
- 18) In equations what symbol is used for velocity? **v**
- 19) How is velocity different than speed? **Velocity has a direction, speed does not**
- 20) Name 2 possible units for Distance. **meter, mile, kilometer...**
- 21) If your acceleration is  $5 \text{ m/s}^2$  that means that you gain **5**  $\text{m/s}$  of speed every **second**.
- 22) If your speed is  $5 \text{ m/s}$  that means that you gain **5**  $\text{m}$  of distance every **second**.
- 23) One way you can accelerate is to increase your speed, name 2 other ways you can accelerate. **Change direction, or decrease your speed**
- 24) During acceleration the **distance** travelled each second will increase.
- 25) What is the average speed of a dog that runs a distance of 40m in 5 seconds? **8  $\text{m/s}$**
- 26) A jet can be launched from 0 to 60  $\text{m/s}$  in 3 seconds. What is the acceleration of the jet?  **$20 \text{ m/s}^2$**
- 27) What is the acceleration of a car that takes 5 sec. to go from 5  $\text{m/s}$  to 40  $\text{m/s}$ ?  **$7 \text{ m/s}^2$**
- 28) Starting from rest, a car undergoes a constant acceleration of  $6 \text{ m/s}^2$ . How far will the car travel in the first second? **3 m...**
- 29) If a rock falls off the edge of a cliff and it takes 6 sec. to reach the bottom, what distance did the rock travel?  
First find average speed... **Avg. speed = 20  $\text{m/s}$  (midpoint between 0  $\text{m/s}$  and 60  $\text{m/s}$ ) then multiply by time.**

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