

## PHYSICS 1 TERM 1 PERIODIC 1 PRACTICE EXAM

$g = 10 \text{ m/s/s}$  down

1. A ball rolls 5 meters in 2 seconds. What is the average speed of the ball?
2. A car moves in a straight line with an average speed of 5 mi/hr. How far will the car travel in 2 hours?
3. A duck flies north with an average speed of 4 m/s. How long will it take the duck to fly 5000 m?
4. Joe walks 30 m north, then 40 m west. What is Joe's displacement?
5. A rock, released from rest, falls 20 m in 2 seconds. What is the average speed of the ball?
6. A car starting from rest accelerates at a constant rate of 3 m/s/s for 5 seconds. What is the final velocity of the car?
7. A car starting from rest accelerates at a constant rate of 3 m/s/s for 5 seconds. How far did the car travel?
8. A car, starting from rest, reaches a velocity of 20 m/s in 4 s. What is the acceleration of the car?
9. A car, starting from rest, travels 100 meters in 20 seconds, while moving with a constant acceleration. What is the car's acceleration?
10. On planet Zorg, the acceleration of gravity is 3 m/s/s. If a rock is released from rest from a height of 20 m, how long will it take to hit the ground?