## 3 Level Practice

$$Speed = \frac{Distance}{Time}$$

$$Acceleration = \frac{Final\ Velocity - Initial\ Velocity}{Time}$$

## YOU MUST SHOW YOUR WORK You can use a calculator but you must show the steps involved in doing the problem.

- 1. What is the speed of a car that travels 150 km in 3 hours?
- 2. A vehicle travels 2345 meters in 315 seconds towards the setting sun. What is its velocity?
- 3. What is the speed of a bus that travels 250 km in 2 hours?
- 4. What distance will a car traveling at 65 km/h travel in 3 hours?
- 5. What distance will be traveled if you are going 120 km/h for 30 minutes?
- 6. How long will it take to go 150 km traveling at 50 km/h?
- 7. How long will it take to travel 200 km traveling at 10 m/s? [Answer must be in hours]
- 8. If a rocket travels 5600 km in 3 hours, what is its speed?
- 9. What is the acceleration of a car that goes from 40 to 80 km/h in 2 seconds?
- 10. A vehicle that goes from 5 to 45 m/s in 8 seconds. What is its acceleration?