

Speed, Velocity, and acceleration

1. A train travels 120 km in 2 hours and 30 minutes. What is its average speed?
2. A plane's average speed between two cities is 600 km/hr. If the trip takes 2.5 hrs. how far does the plane fly?
3. A car traveling at 15 m/s starts to decelerate steadily. It comes to a complete stop in 10 seconds. What is its acceleration?
4. A child drops a ball from a window. The ball strikes the ground in 3.0 seconds. What is the velocity of the ball the instant before it hits the ground?
5. If a train going 60 m/s hits the brakes, and it takes the train 1 minute 25 seconds to stop, what is the train's acceleration?
6. How long will it take a car to go from a complete stop to 44 km/hr if they are accelerating at 5 km/hr²?