

**Answer on question #67447, Physics / Other**

**Question** A train is moving with velocity 54 km/h is accelerated so that it's velocity becomes 72 km/h in 15 seconds . Find the acceleration of the train.

**Solution** The acceleration is

$$a = \frac{\Delta v}{\Delta t} = \frac{72km/h - 54km/h}{15s} = \frac{18km/h}{15s} = \frac{5m/s}{15s} = \frac{1}{3} m/s^2 \approx 0.33m/s^2$$