

Chapt. 3 rev a

Solve each problem: (data/diagrams, type motion/ formulas/work)

1. A rock falls for a 3.0 meter (-3.0 m) cliff and hits the ground 0.78 s later. A) What is the average velocity? B) What is the final velocity? C) Calculate the acceleration.

2. A little runner goes from rest to 5.5 m/s in 1.4 s. A) What was the average velocity?
B) What distance did he/she travel during this exciting event? C) What acceleration was experienced?

3. A car goes from 33 m/s to 22 m/s in .90 s. A) What is the acceleration of the car? B) What distance was covered during this acceleration?

4. Sound travels at 760 mph. How long would it take to travel around the world if earth's radius is 6.38×10^6 m?