

Acceleration Retest Review

Chapter Five Physics

1. A rock is dropped off a 66.0 m cliff. A) What velocity does it hit at? B) How long is it in the air?
2. A rock is thrown up at 44 km/hr..a) How high does it go? B) How long is it in the air?
3. A car traveling at 97 km/hr slows to 55 km/hr in 2.4 s. a) What is the acceleration of the car. B) What is the car's velocity after 1.3 s of the slowing?
4. A car goes from rest to 125 miles/hr in 6.4 s. a) What is the car's acceleration? B) What is the distance traveled during this time?
5. A bullet leaves a 1.1 m gun at 355 m/s. a) What is the bullet's acceleration? B) How long is the bullet in the barrel? C) How high would the bullet go if it were shot straight up?
6. A person running at 12 km/hr falls and stops in 1.2 s. a) What is his/her acceleration? B) How far does she slide?
7. In an experiment a ball falls 1.20 m in 0.505 s. What is E_a and E_r if "A" is 9.81 m/s^2 .

a) $75.3 \text{ m} \times 12 \text{ m} =$

b) $75.3 \text{ m} / 12 \text{ m} =$

c) $75.3 \text{ m} - 12 \text{ m} =$

d) $75.3 \text{ m} + 12 \text{ m} =$

e) $75 \text{ m} \times 12.5 \text{ m} =$

f) $75 \text{ m} / 12.5 \text{ m} =$