

Another Great Review

Chpt. 3 rev 6

Vel. of light = 3.0×10^8 m/s Vel. of sound = 340 m/s
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1. How long does it take the light to travel the 25,000 miles. (1 mile = 1.61 km)
2. The bullet from a gun travels at 315 m/s (after it leaves the barrel). How far does it go in 0.520 seconds?
3. A bullet goes from rest to 355 m/s in 3.84×10^{-3} s. What is the acceleration of the bullet in the gun? How long is the barrel?
4. You drop a rock from a cliff and it hits the ground after 5.5 seconds. How fast is it going?...How far did it fall?
5. Ernie drops his book (not his Physics book!) from his car window and it hits the road 0.52 later.
a) What velocity does it hit at? B) How far did it fall?