2.1 Quizlette – Speed and DA

Speed (Use your formula packet)

1. A Cross Country runner runs 5000 m in 1292 s (21:32). What is their velocity in m/s?

2. A car going 60 mph is traveling at 88 f/s. How many feet will it travel in the 1.7 s it takes you to pick a song on your iPhone?

3. What time does it take a baseball going 132 f/s (90 mph) to go the 60.5 feet to home plate?

4. A car going 95 f/s can see 160 feet with its low beams at night. What time does it take to go this distance?

5. A car going 95 f/s goes how far in the 1.5 seconds it takes most drivers to react?

6. A runner goes 100 m in 12.0 s. What is their velocity?

7. A train going 18 m/s goes how far in 52 s?

8. A truck that goes 62 m in 2.1 s is going what speed?

9. Sound travels at 343 m/s. What time does it take to go the 1609 m that are in a mile?

Unit Conversions (use your shortcuts from your formula packet)

10. Convert 26.82 m/s to km/hr.
11. Convert 26.82 m/s to mph.
12. Convert 26.82 m/s to f/s.
13. A Winchester .22 rim fire has a muzzle velocity of 1950 f/s. Convert that to m/s
14. A .30-30 center fire has a muzzle velocity of 2467 f/s. What is that in mph?
15. The speed limit in Montana is 80 mph. What is that in m/s?
16. The recommended maximum speed on the Autobahn is 130 km/hr. What is that in mph?
17. Rural roads in the EU often have a speed limit of 50 km/hr. What is that in f/s?
18. Convert 30 mph to f/s.