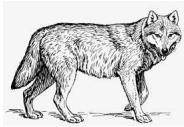Name: _____   Date: _____

[20 pt]   1. Answer each of the following questions. ALL answers should contain the proper number of Significant Figures and the proper Units. Show work to receive full credit.
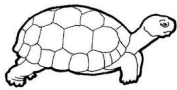
    (a) A velociraptor runs 12 miles/hour. How long (in minutes) will it take a   1(a) _____ velociraptor to travel 800. miles?

    (b) A wolf can run 3.0 feet/sec, how far (in miles) can a wolf run in 2.0 hours?   1(b) _____

    (c) A tortoise drinks 2.0 Liters of water every day. How many gallons of water   1(c) _____ does a tortoise drink in a week?

    (d) Mater drives 65 miles/hour. How long will it take Mater in minutes to travel   1(d) _____ 250 km?

    (e) A horse can carry 250 lbs of equipment. If you need to move 3.5 tons of equipment, how many horses will you need?   1(e) _____

[20 pt] 2. Answer each of the following questions. ALL answers should contain the proper number of Significant Figures and the proper Units. Show work to receive full credit.

(a) Lead has a density of 11.34 g/mL, what is the mass (in lbs) of 250 mL of lead? 2(a) _____

(b) The nearest star is 3.99×10^{13} kilometers away, how long in days will it take a
space probe traveling 60 miles/hour to reach the nearest star?   2(b) _____

(c) A hose delivers 250 gallons of water a hour, how many mL are delivered in 1 day? 2(c) _____

(d) A bag of pretzels has a mass of 283.5 g and costs $1.49.
If a bag contains 18 pretzels, what is the cost of a pound of pretzels?   2(d) _____

(e) A regular aspirin tablet contains 5.0 grains of aspirin.
How many grams of aspirin are in one tablet? (1 grain = 1/7000. lb)   2(e) _____