$\begin{array}{c} \text{CHE 101 - Homework - Ch 3g} \\ \text{Word Problems} \end{array}$

Score: ____/40

Name:	Date:	
	inswer each of the following questions. ALL answers should contain the proper ligures and the proper Units. Show work to receive full credit.	number of Significant
((a) A velociraptor runs 12 miles/hour. How long (in minutes) will it take a velociraptor to travel 800. miles?	a 1(a)
(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 does a tortoise drink in a week?	r 1(c)
((d) Mater drives 65 miles/hour. How long will it take Mater in minutes to trave 250 km?	l 1(d)
((e) A horse can carry 250 lbs of equipment. If you need to move 3.5 tons of	1/)
	equipment, how many horses will you need?	1(e)

CHE 101 - Homework - Ch $3\mathrm{g}$

[20 pt]		wer each of the following questions. ALL answers should contain the proper number of Significant ures and the proper Units. Show work to receive full credit.
	(a)	A cook can bake 24 cookies in 10 minutes. How long in hours will it take 2(a) him to bake 1.00×10^4 cookies?
	(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 6.0 days? $2(c)$
	(d)	A farmer wants to trade some rabbits he has for goats. If he makes the 2(d)
	(e)	A chemist wants to make 50.0 lbs of gold (Au). If he knows the following 2(e) conversions, how many grams of lead (Pb) does he need to start with to make 50.0 lbs of gold (Au)? 1 mol of Au weighs 197.0 grams, 1 mol of Pb weighs 207.2 grams, for every 2 mols of Au he makes he needs 1 mol of Pb. Note, you have not learned what a mol is, but can still use it as a conversion factor.