

CHE 101 - Homework - Ch 3f

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

(a) Water travels down a pipe at 2.0 L/minute, what is the flow in gallons/sec? 2(a) _____

(b) Calculate the number of milliliters of water in 2.0 cubic feet of water. 2(b) _____

(c) A space probe traveling at 27,000 mi/hr. is traveling at what speed in km/sec? 2(c) _____

(d) Given the following conversion how many flarps are in 12 fleep?
(2.4 flarps = 2 glugs, 9 pluns = 27 migs, 24 glugs = 1 mig, and 2 pluns = 17 fleeps. 2(d) _____

(e) A stove provides 250 J/sec of heat, what is the amount of heat provided in cal/hour? 2(e) _____