

CHE 101 - Homework - Ch 3c
Conversion with US and US/Metric Units

Score: ____/40

Name: _____

Date: _____

[10 pt] 1. Perform each of the following simple conversions (English \rightleftharpoons English). ALL answers should contain the proper number of Significant Figures and the proper Units. Show work to receive full credit.

(a) 12 lbs to ounces 1(a) _____

(b) 2.0 gallons to quarts 1(b) _____

(c) 240 in to feet 1(c) _____

(d) 0.056 quarts to Liters 1(d) _____

(e) 3,240 ft to miles 1(e) _____

[10 pt] 2. Perform each of the following simple conversions (metric \rightleftharpoons English). ALL answers should contain the proper number of Significant Figures and the proper Units. Show work to receive full credit.

(a) 18.0 in to cm 2(a) _____

(b) 150 kg to lbs 2(b) _____

(c) 20.0 L to gallons 2(c) _____

(d) 2.5×10^2 lbs to kg 2(d) _____

(e) 0.003 m to yards 2(e) _____

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[10 pt] 3. Perform each of the following simple conversions (English \rightleftharpoons English). ALL answers should contain the proper number of Significant Figures and the proper Units. Show work to receive full credit.

(a) 2.5×10^{-1} links to feet 3(a) _____

(b) 1.20×10^2 fl. oz to cups 3(b) _____

(c) 2,345 drams to oz. 3(c) _____

(d) 5280 feet to rods 3(d) _____

(e) 3.5×10^{-2} tons to lbs 3(e) _____

[10 pt] 4. Perform each of the following simple conversions (metric \rightleftharpoons English). ALL answers should contain the proper number of Significant Figures and the proper Units. Show work to receive full credit.

4(a) 4.5×10^3 gal to L 4(a) _____

4(b) 5.0×10^{-2} km to miles 4(b) _____

4(c) 0.002 mi to km 4(c) _____

4(d) 0.5 Atm to torr 4(d) _____

4(e) 250 cal to J 4(e) _____