

**CHE 111 - Homework - Ch 1c**  
**Conversion with US and US/Metric Units**

OER 1.4-1.6

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)  $2.5 \times 10^2$  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)  $2.5 \times 10^{-1}$  links to feet 3(a) \_\_\_\_\_

(b)  $1.20 \times 10^2$  fl. oz to cups 3(b) \_\_\_\_\_

(c) 2,345 drams to oz. 3(c) \_\_\_\_\_

(d) 5280 feet to rods 3(d) \_\_\_\_\_

(e)  $3.5 \times 10^{-2}$  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)  $4.5 \times 10^3$  gal to L 4(a) \_\_\_\_\_

4(b)  $5.0 \times 10^{-2}$  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) \_\_\_\_\_