

EXAM 4

Applied Math MA39

In 14–17, round off your answers to the nearest *whole unit*.

14. Change:

a. $15\frac{3}{4}$ gal. to qt. —

b. 57 pt. to qt.

c. 100 oz. to qt.

d. half a gallon to ounces

e. 1,837 mL to L

f. 3.45 L to mL

15. Change:

a. 640 oz. to lb.

b. 18 lb. 5 oz. to oz.

c. 5,600 lb. to tons

d. $\frac{1}{100}$ ton to ounces

e. 3.42 g to mg

f. 26 kg to g

16. Change:

a. 1 week to hours

b. 6,000 seconds to hours

c. $\frac{1}{10}$ day to minutes

17. Change:

a. 10 gross to dozens

b. 240 units to dozens

c. 240 units to scores

18. Add and simplify.

a. $\begin{array}{r} 12 \text{ yd. } 2 \text{ ft. } 10 \text{ in.} \\ 6 \text{ yd. } 1 \text{ ft. } 8 \text{ in.} \\ \hline 16 \text{ yd. } 2 \text{ ft. } 9 \text{ in.} \end{array}$

b. $\begin{array}{r} 8 \text{ yr. } 9 \text{ mo. } 23 \text{ da.} \\ 12 \text{ yr. } 11 \text{ mo. } 16 \text{ da.} \\ \hline 19 \text{ yr. } 7 \text{ mo. } 28 \text{ da.} \end{array}$

c. $\begin{array}{r} 15 \text{ lb. } 12 \text{ oz.} \\ 19 \text{ lb. } 15 \text{ oz.} \\ \hline 23 \text{ lb. } 7 \text{ oz.} \end{array}$

19. Subtract and simplify.

a. $\begin{array}{r} 23 \text{ ft. } 7 \text{ in.} \\ 13 \text{ ft. } 11 \text{ in.} \\ \hline \end{array}$

b. $\begin{array}{r} 18 \text{ gal. } 2 \text{ qt.} \\ 5 \text{ gal. } 3 \text{ qt.} \\ \hline \end{array}$

c. $\begin{array}{r} 21 \text{ yd. } 1 \text{ ft. } 7 \text{ in.} \\ 12 \text{ yd. } 2 \text{ ft. } 9 \text{ in.} \\ \hline \end{array}$

20. Multiply and simplify.

a. $\begin{array}{r} 21 \text{ lb. } 13 \text{ oz.} \\ \times 5 \\ \hline \end{array}$

b. $\begin{array}{r} 12 \text{ gal. } 3 \text{ qt. } 1 \text{ pt.} \\ \times 9 \\ \hline \end{array}$

c. $\begin{array}{r} 15 \text{ yd. } 2 \text{ ft. } 8 \text{ in.} \\ \times 7 \\ \hline \end{array}$

21. Divide and simplify.

a. $5 \overline{) 18 \text{ gal. } 3 \text{ qt.}}$

b. $3 \overline{) 16 \text{ lb. } 5 \text{ oz.}}$

c. $6 \overline{) 28 \text{ yd. } 2 \text{ ft. } 6 \text{ in.}}$

22. Find what time it will be:

a. 2 hours 15 minutes after 9:25 P.M.

b. 4 hours 45 minutes after 10:20 A.M.