Name ______________________________ Date ______________

1. Divide and check.

a. 7 ÷ 28

$28\overline{)7.00}$ = 0.25; −56, 140, −140, 0

Check: 0.25 × 28 = 200 + 500 = 7.00

b. 51 ÷ 25

$25\overline{)51.00}$ = 2.04; −50, 100, −100, 0

Check: 2.04 × 25 = 1020 + 4080 = 51.00

c. 6.5 ÷ 13

$13\overline{)6.5}$ = .5; −65, 0

Check: 13 × .5 = 6.5

d. 132.16 ÷ 16

$16\overline{)132.16}$ = 8.26; −128, 41, −32, 96, −96, 0

Check: 8.26 × 16 = 4956 + 8260 = 132.16

e. 561.68 ÷ 28

$28\overline{)561.68}$ = 20.06; −56, 0168, −168, 0

Check: 20.06 × 28 = 16048 + 40120 = 561.68

f. 604.8 ÷ 36

$36\overline{)604.8}$ = 16.8; −36, 244, −216, 288, −288, 0

Check: 16.8 × 36 = 1008 + 5040 = 604.8

2. In a science class, students water a plant with the same amount of water each day for 28 consecutive days. If the students use a total of 23.8 liters of water over the 28 days, how many liters of water did they use each day? How many milliliters did they use each day?

$28\overline{)23.80}$ = .85; −224, 140, −140, 0

They use 0.85 L each day.

0.85 L = 850 ml

3. A seamstress has a piece of cloth that is 3 yards long. She cuts it into shorter lengths of 16 inches each. How many of the shorter pieces can she cut?

$$\begin{array}{r} 36 \\ \times\ 3 \\ \hline 108 \end{array} \qquad 16\overline{)108} \quad 6,\ -96,\ 12$$

She can cut 6 of the shorter pieces.

4. Jenny filled 12 pitchers with an equal amount of lemonade in each. The total amount of lemonade in the 12 pitchers was 41.4 liters. How much lemonade would be in 7 pitchers?

$$12\overline{)41.40} \quad 3.45,\ -36,\ 54,\ -48,\ 60,\ -60,\ 0$$

$$\begin{array}{r} 3.45 \\ \times\ \ 7 \\ \hline 24.15 \end{array}$$

24.15 liters in the seven pitchers.