Math 085 - Quiz 3

Name __key__

August 29, 2013

Score _____

Show all your work to receive full credit. Supply explanations when necessary.
NO CALCULATORS ARE ALLOWED ON THIS QUIZ!

1. (1 point) Find the quotient and remainder: $15741 \div 6$

$$6 \overline{)15741} \quad 2623 \text{ r } 3$$

$\boxed{2623 \text{ r } 3}$

2. (2 points) Solve each equation.

(a) $\dfrac{5x}{5} = \dfrac{235}{5}$

$\boxed{X = \dfrac{235}{5} = 47}$

$$5\overline{)235} \quad 47$$

(b) $w + 27 = 95$

$\quad -27 \quad -27$

$\boxed{\omega = 68}$

$$\begin{array}{r} 95 \\ -27 \\ \hline 68 \end{array}$$

3. (2 points) Compute each of the following.

(a) $6[2(8-4)-7]$

$= 6\left(2(4)-7\right) = 6(8-7) = 6(1) = \boxed{6}$

(b) $8(3^2) - 5(8-6) - 3(9-6) = 8(9) - 5(2) - 3(3)$

$= 72 - 10 - 9$

$= 62 - 9 = \boxed{53}$