Algebra 1   Bellwork   Thursday, October 29, 2015

1. The perimeter of a triangle is 57 ft. Two of the sides have equal lengths. The sides with equal lengths are four less than twice the third side. Write and solve an equation to find the lengths of the three sides.
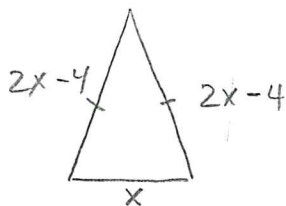
2. Four consecutive odd numbers have a sum of –296. Write and solve an equation to find these four numbers.

3. Solve this equation for W. $G = M \cdot \dfrac{W+R}{K} - C$ $W =$

$$57 = \underline{\ x\ } + \underline{\ 2x-4\ } + \underline{\ 2x-4\ }$$

$$57 = 5x - 8$$
$$\quad +8 \qquad\quad +8$$

$$\boxed{3\ sides \quad 13, 22, 22}$$

$$\frac{65}{5} = \frac{5x}{5} \qquad x = 13$$

$$2x-4 = 2(13)-4$$
$$= 26-4 = 22$$

2. Four consecutive odd numbers have a sum of –296. Write and solve an equation to find these four numbers. $x = 1ST\ ODD\ \#$

$$\underline{\ x\ } + \underline{\ x+2\ } + \underline{\ x+4\ } + \underline{\ x+6\ } = -296$$

$$4x + 12 = -296$$
$$\quad -12 \qquad -12$$

$$x = -77$$

$$\frac{4x}{4} = \frac{-308}{4}$$

$$\boxed{\begin{array}{l} \#'s\ are: \\ -77, -75, -73, -7 \end{array}}$$

3. Solve this equation for W. $G = M \cdot \dfrac{W+R}{K} - C$

$$\boxed{W = \left(\frac{G+C}{M}\right)K - R}$$

1