UNIT REVIEW

1. Solve each of the following equations.

a) $-4n = -16$	b) x - 9 = 17	c) $\frac{b}{3} = -2$
c) -2x + 4 = 14	d) 5x + 3x - 16 - 2x + 20 = 4x + x - 30	
e) 3(x - 1) - 2(x + 1) = 5x	f) (x - 2) - (x + 1) = -5(2x - 1)	
g) $\frac{3x}{5} - \frac{2x}{3} = 2$	h) $\frac{(x-2)}{6} - \frac{(x-2)}{5} = 2$	

2) You can convert from Fahrenheit to Celsius degrees by using the formula: $F = 2(°C+15)$.
a) Solve for C

b) What is $81°F$ converted to $°C$?

3) Determine the length of each side of a triangle if the sides are: x, x+ 7, and 2x -5 and the perimeter is 18cm.
[Write your 'let statements', an equation, and show your work.] Consider drawing a diagram.

4) Julie solved two equations. In each she made an error. Identify her error and explain what she did wrong.

a. $3x + 5 = -2$

$+5 \quad +5$ (add +5 on both sides)

$3x = 3$

$\div 3 \quad \div 3$ (divide by 3 on both sides)

$x = 1$

b. $x + 4 = +2x - 7$

$-2x \qquad - 2x$ (subtract $-2x$ on both sides)

$-3x + 4 = 7$

$-4 \quad - 4$ (subtract -4 on both sides)

$-3x = 3$

$\div -3 \quad \div -3$ (divide by -3 on both sides)

$x = -1$