Bellwork Friday, June 6, 2014

1. Find the missing terms in this Geomtric Sequence.

$$\frac{1.5 \times r^{7}}{1.5} = \frac{24576}{1.5}$$

$$r^{2} = \frac{1638y}{1.5}$$

$$r = \sqrt{163} + y = y$$

3. Find the sum of this Arithmetic Series.

$$S_{n} = \frac{n}{2}(18+82)$$

$$q_{n} = q_{1} + (n-1) + (8-$$

2. Find the first term given the following two terms of an Arithmetic Sequence.

$$\begin{array}{c} (a_{24} = 80) & (a_{35} = 113) \\ a_{n} = a_{1} + (n-1) d \\ a_{n} = a_{1} + (n-1) d \\ d = \frac{113 - 80}{11} \end{array}$$

 $a_{n} = a_{1} + (n-1)d$ $a_{n} = a_{1} + (n-1)d$ $b = \frac{113-80}{11}$ $b = \frac{113-80}{11}$ $b = \frac{1}{11}$ $b = \frac{1}{11}$ $b = \frac{1}{11}$

4. Find the sum of this Arithmetic Series.

$$S_{n} = \frac{1}{2} \left(-5 + -119 \right) = -1240$$

$$-119 = -5 + (n-1)(-6)$$

$$11 = 26$$