Name: ___ Period:

Use the links below that are provided within each problem.

1)	Go to http://www.mathguide.com/cgi-bin/quizmasters	/seqArithnTerm.cgi and correctly do one problem.
	sequence:	
	n =	
2)	Go to http://www.mathguide.com/cgi-bin/quizmasters	/seqArithSum2.cgi and correctly do one problem.
	series.	
	50105.	
	n =	$S_n =$
3)	Go to http://www.mathguide.com/cgi-bin/quizmasters	/seqArithSum1.cgi and correctly do one problem.
	series:	
	<i>a</i> =	S =
4)	Go to http://www.mathguide.com/cgi-bin/quizmasters	<u>/seqGeoForm.cgi</u> and correctly do one problem.
	sequence:	
	$a_n =$	
5)	Go to http://www.mathguide.com/cgi-bin/quizmasters	/seqGeoSum.cgi and correctly do one problem.
	finite series:	
	<i>r</i> =	S =
6)	Go to <u>http://www.mathguide.com/cgi-bin/quizmasters/seqGeoISum.cgi</u> and correctly do one problem.	
	infinite series:	
	<i>r</i> =	$S_{\infty} =$

7)
$$\sum_{k=5}^{12} (3k-8)$$

8) $\sum_{j=1}^{\infty} 5\left(\frac{1}{3}\right)^{j-1}$

Solve each of this real-world problems using sequences and/or series.

9)	If you had \$145 in your account at the beginning of week 13 and \$205 at the beginning of week 18, how much are you depositing weekly?
10)	You throw a SuperBall on the cement as hard as you can and watch it bounce until it stops. You notice the first bounce reaches a height of 200 ft, but the second bounce reaches only half of that height. How high will the 7 th bounce reach? How far (total distance) has the ball traveled before the 8 th bounce?
11)	You decide you are going to open a savings account. Each week, you are going to deposit \$3 more than the previous week. The first week, you deposit \$10. How much money will you deposit during the 25 th week?
	How much money will you have at the end of the 25 th week?
12)	Go to <u>https://www.youtube.com/watch?v=-y1Ob0K63hc</u> and write a summary of a mathematical property that you saw.