MAKING CONNECTIONS: SEQUENCES & FUNCTIONS

Х	3	4	5	6	7	
f(x)	12	14	16	18	20	
		class reconnues of the table	We on Sli (gra	eight D the St	various v istance retched (mm) 0 1 3 5	weights stretched a slinky. The
			ble?			
inal is	the indepe	endent van				
						this relationship? tretched 18mm?
What wo	ould the di	stance the	slinky str	etched b	e if the w	eight is 30 grams?
		expressior its positior				nship between the terms in the

9. Find the algebraic expression that represents the relationship between the terms in the sequence below and its position, n, in the sequence. Find the 15 th term in the sequence.								
3, 8, 13, 18,								
Expression: 15 th Tern	n:							
The squares shown in the figures below a pattern.								
Figure 1 Figure 2	Figure 3							
10. Find the expression that could be used to determine the number of squares in the n th figure.								
11. How many squares would there be in the 8 th figure?								
12. Which function includes the data set {(2, -2), (6, 10), (13, 31)}?								
A. $y = \frac{1}{2}x - 3$ B. $y = -2x + 2$ C. $y = 3x - 8$	D. $y = 4x - 10$							
13. Graph $y = 3x - 4$								

Answers in random order except for 2 – 5: y = 3x - 8, -3n + 7, 73, 10, 27, 3n + 3, f(x) = 2x + 6, 5n - 2, 54