



Math worksheet on 'Patterning - Term Value from Equation for Increasing Arithmetic Pattern (Level 2)'.  
Part of a broader unit on 'Patterns and Sums - Advanced'

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1 Find the term for n=11 given this pattern equation

$$a_n = 2 + 2(n - 1)$$

<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>e</b>	<b>f</b>
52	22	-18	26	27	32

2 Find the term for n=9 given this pattern equation

$$a_n = 2 + 3(n - 1)$$

<b>a</b>	-22	<b>b</b>	13,122
<b>c</b>	29	<b>d</b>	26
<b>e</b>	25	<b>f</b>	23

3 Find the term for n=14 given this pattern equation

$$a_n = 3 + 5(n - 1)$$

<b>a</b>	66	<b>b</b>	3,662,109,375
<b>c</b>	72	<b>d</b>	63
<b>e</b>	68	<b>f</b>	-62

4 Find the term for n=12 given this pattern equation

$$a_n = 2 + 5(n - 1)$$

<b>a</b>	52	<b>b</b>	57
<b>c</b>	90	<b>d</b>	46
<b>e</b>	54	<b>f</b>	97,656,250

5 Find the term for n=10 given this pattern equation

$$a_n = 1 + 3(n - 1)$$

<b>a</b>	19,683	<b>b</b>	24
<b>c</b>	55	<b>d</b>	33
<b>e</b>	19	<b>f</b>	28

6 Find the term for n=12 given this pattern equation

$$a_n = 1 + 2(n - 1)$$

<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>e</b>	<b>f</b>
2,048	25	23	-21	27	19

7 Find the term for n=11 given this pattern equation

$$a_n = 2 + 4(n - 1)$$

<b>a</b>	32	<b>b</b>	46
<b>c</b>	-38	<b>d</b>	42
<b>e</b>	2,097,152	<b>f</b>	43