



Math worksheet on 'Patterning - Term Value from Equation for Decreasing Arithmetic Pattern (Level 3)'. Part of a broader unit on 'Patterns and Sums - Advanced'

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- 2** Find the term for  $n=12$  given this pattern equation

$$a_n = 48 - 3(n - 1)$$

<b>a</b>	13	<b>b</b>	81
<b>c</b>	8,503,056	<b>d</b>	37
<b>e</b>	15	<b>f</b>	4

- 4** Find the term for  $n=14$  given this pattern equation

$$a_n = 73 - 5(n - 1)$$

<b>a</b>	10	<b>b</b>	89,111,328,125
<b>c</b>	-18	<b>d</b>	5
<b>e</b>	8	<b>f</b>	138

- 6** Find the term for  $n=11$  given this pattern equation

$$a_n = 44 - 3(n - 1)$$

<b>a</b>	-16	<b>b</b>	74
<b>c</b>	9	<b>d</b>	2,598,156
<b>e</b>	14	<b>f</b>	12

- 1** Find the term for  $n=17$  given this pattern equation

$$a_n = 46 - 3(n - 1)$$

<b>a</b>	94	<b>b</b>	0
<b>c</b>	-5	<b>d</b>	-66
<b>e</b>	-2	<b>f</b>	1,980,149,166

- 3** Find the term for  $n=19$  given this pattern equation

$$a_n = 61 - 4(n - 1)$$

<b>a</b>	-6	<b>b</b>	-29
<b>c</b>	133	<b>d</b>	-83
<b>e</b>	-11	<b>f</b>	4,191,888,080,896

- 5** Find the term for  $n=18$  given this pattern equation

$$a_n = 59 - 4(n - 1)$$

<b>a</b>	-43	<b>b</b>	-9
<b>c</b>	1,013,612,281,856	<b>d</b>	-8
<b>e</b>	-10	<b>f</b>	8

- 7** Find the term for  $n=17$  given this pattern equation

$$a_n = 57 - 4(n - 1)$$

<b>a</b>	-11	<b>b</b>	9
<b>c</b>	244,813,135,872	<b>d</b>	121
<b>e</b>	-8	<b>f</b>	-7