



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

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1

Find the term for  $n=13$  given this pattern rule (first term is  $n=1$ )

Start at 48 and subtract 3 for each term

<b>a</b>	25,509,168	<b>b</b>	60
<b>c</b>	14	<b>d</b>	12
<b>e</b>	9	<b>f</b>	16

2

Find the term for  $n=12$  given this pattern rule (first term is  $n=1$ )

Start at 45 and subtract 3 for each term

<b>a</b>	56	<b>b</b>	10
<b>c</b>	12	<b>d</b>	14
<b>e</b>	-21	<b>f</b>	7,971,615

3

Find the term for  $n=11$  given this pattern rule (first term is  $n=1$ )

Start at 62 and subtract 4 for each term

<b>a</b>	65,011,712	<b>b</b>	20
<b>c</b>	22	<b>d</b>	12
<b>e</b>	21	<b>f</b>	24

4

Find the term for  $n=10$  given this pattern rule (first term is  $n=1$ )

Start at 73 and subtract 5 for each term

<b>a</b>	19	<b>b</b>	32
<b>c</b>	142,578,125	<b>d</b>	118
<b>e</b>	27	<b>f</b>	28

5

Find the term for  $n=8$  given this pattern rule (first term is  $n=1$ )

Start at 31 and subtract 2 for each term

<b>a</b>	38	<b>b</b>	17
<b>c</b>	22	<b>d</b>	20
<b>e</b>	18	<b>f</b>	45

6

Find the term for  $n=12$  given this pattern rule (first term is  $n=1$ )

Start at 43 and subtract 3 for each term

<b>a</b>	7	<b>b</b>	76
<b>c</b>	14	<b>d</b>	6
<b>e</b>	10	<b>f</b>	7,617,321

7

Find the term for  $n=10$  given this pattern rule (first term is  $n=1$ )

Start at 71 and subtract 5 for each term

<b>a</b>	26	<b>b</b>	23
<b>c</b>	35	<b>d</b>	30
<b>e</b>	24	<b>f</b>	62