



Math worksheet on 'Number Sequences - Geometric, First Terms (Level 1)'. Part of a broader unit on 'Patterns and Sums - Practice'

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**1** What are the first 3 terms, starting with  $x = 1$  in this number sequence

$3^x$

<b>a</b>	3, 24, 81	<b>b</b>	3, 24, 81
<b>c</b>	3, 9, 27	<b>d</b>	3, 12, 27
<b>e</b>	1, 8, 27	<b>f</b>	6, 12, 18

**2** What are the first 3 terms, starting with  $d = 1$  in this number sequence

$8^d$

<b>a</b>	1, 256, 6561
<b>b</b>	8, 32, 72
<b>c</b>	16, 32, 48
<b>d</b>	8, 64, 512
<b>e</b>	8, 64, 216
<b>f</b>	8, 2048, 52488

**3** What are the first 3 terms, starting with  $c = 1$  in this number sequence

$2^c$

<b>a</b>	2, 8, 18	<b>b</b>	2, 4, 8
<b>c</b>	4, 8, 12	<b>d</b>	2, 16, 54
<b>e</b>	2, 8, 18	<b>f</b>	1, 4, 9

**4** What are the first 3 terms, starting with  $m = 1$  in this number sequence

$2^m$

<b>a</b>	4, 8, 12	<b>b</b>	2, 16, 54
<b>c</b>	2, 8, 18	<b>d</b>	2, 4, 8
<b>e</b>	1, 4, 9	<b>f</b>	2, 8, 18

**5** What are the first 3 terms, starting with  $p = 1$  in this number sequence

$4^p$

<b>a</b>	8, 16, 24	<b>b</b>	1, 16, 81
<b>c</b>	4, 16, 64	<b>d</b>	4, 16, 36
<b>e</b>	4, 64, 324	<b>f</b>	4, 32, 108

**6** What are the first 3 terms, starting with  $x = 1$  in this number sequence

$9^x$

<b>a</b>	1, 512, 19683
<b>b</b>	18, 36, 54
<b>c</b>	9, 4608, 177147
<b>d</b>	9, 81, 729
<b>e</b>	9, 36, 81
<b>f</b>	9, 72, 243

**7** What are the first 3 terms, starting with  $z = 1$  in this number sequence

$8^z$

<b>a</b>	8, 2048, 52488
<b>b</b>	16, 32, 48
<b>c</b>	8, 64, 512
<b>d</b>	8, 32, 72
<b>e</b>	8, 64, 216
<b>f</b>	1, 256, 6561