



# Investigating Numeric Patterns

Look at each of these number patterns carefully and answer the questions that follow:

1.

<b>3</b>	<b>9</b>	<b>15</b>	<b>21</b>	<b>27</b>
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a. What is the pattern for these numbers?

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b. Give the next 3 numbers in this pattern:

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2.

<b>6</b>	<b>11</b>	<b>16</b>	<b>21</b>	<b>26</b>
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a. What is the pattern for these numbers?

---

b. Give the next 3 numbers in this pattern:

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3.

<b>4</b>	<b>8</b>	<b>16</b>	<b>32</b>	<b>64</b>
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a. What is the pattern for these numbers?

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b. Give the next 3 numbers in this pattern:

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4.

7	11	15	19	23
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a. What is the pattern for these numbers?

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b. Give the next 3 numbers in this pattern:

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5.

100	87	74	61	48
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a. What is the pattern for these numbers?

---

b. Give the next 3 numbers in this pattern:

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6.

512	256	128	64	32
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a. What is the pattern for these numbers?

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b. Give the next 3 numbers in this pattern:

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7.

11	23	35	47	59
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a. What is the pattern for these numbers?

---

b. Give the next 3 numbers in this pattern:

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8.

2	6	18	54	162
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a. What is the pattern for these numbers?

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b. Give the next 3 numbers in this pattern:

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**9. Create your own pattern**

a. Where does your pattern start?

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b. What do you do to get your pattern?

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c. Give the first 5 number of your pattern:

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# Investigating Numeric Patterns

## Answers

Look at each of these number patterns carefully and answer the questions that follow:

1. 3 9 15 21 27

a. What is the pattern for these numbers?

**Add 6 to the previous number in the pattern to get the next number.**

b. Give the next 3 numbers in this pattern:

**33 39 45**

2. 6 11 16 21 26

a. What is the pattern for these numbers?

**Add 5 to the previous number in the pattern to get the next number.**

b. Give the next 3 numbers in this pattern:

**31 36 41**

3. 4 8 16 32 64

a. What is the pattern for these numbers?

**Multiply the last number by 2 to get the next number.**

b. Give the next 3 numbers in this pattern:

**128 256 512**

4. 7 11 15 19 23

a. What is the pattern for these numbers?

**Add 4 to the previous number in the pattern to get the next number.**

b. Give the next 3 numbers in this pattern:

**27 31 35**

5. 100 87 74 61 48

a. What is the pattern for these numbers?

**Subtract 13 from the last number to get the next number.**

b. Give the next 3 numbers in this pattern:

**35 22 9**

6. 512 256 128 64 32

a. What is the pattern for these numbers?

**Divide the last number by 2 to get the next number.**

b. Give the next 3 numbers in this pattern:

**16 8 4**

7. 11 23 35 47 59

a. What is the pattern for these numbers?

**Add 12 to the last number to get the next number.**

b. Give the next 3 numbers in this pattern:

**71 83 95**

8. 2 6 18 54 162

a. What is the pattern for these numbers?

**Multiply the last number by 3 to get to the next number.**

b. Give the next 3 numbers in this pattern:

**486 1 458 4 374**

9. Create your own pattern

a. Where does your pattern start?

**Own answer**

b. What do you do to get your pattern?

**Own answer**

c. Give the first 5 number of your pattern:

**Own answer**