Investigating Solution Numeric Patterns

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

| 1. | | 3 | 9 | 15 | 21 | 27 | | | | |
|------|---|-------------|-------------|-----|----|----|--|--|--|--|
| a. W | a. What is the pattern for these numbers? | | | | | | | | | |
| b. G | b. Give the next 3 numbers in this pattern: | | | | | | | | | |
| | | | | | | | | | | |
| 2. | | 6 | 11 | 16 | 21 | 26 | | | | |
| α. W | 1. What is the pattern for these numbers? | | | | | | | | | |
| b. G | b. Give the next 3 numbers in this pattern: | | | | | | | | | |
| | | | | | | | | | | |
| 3. | | 4 | 8 | 16 | 32 | 64 | | | | |
| a. W | Vhat is the | pattern for | these numbe | rs? | | | | | | |

b. Give the next 3 numbers in this pattern:



| 7 | 11 | 15 | 19 | 23 |
|---|----|----|----|----|
| • | •• | | | |

- a. What is the pattern for these numbers?
- b. Give the next 3 numbers in this pattern:
- 5. **100 87 74 61 48**
- a. What is the pattern for these numbers?
- b. Give the next 3 numbers in this pattern:
- 6. **512 256 128 64 32**

a. What is the pattern for these numbers?

b. Give the next 3 numbers in this pattern:



- a. What is the pattern for these numbers?
- b. Give the next 3 numbers in this pattern:

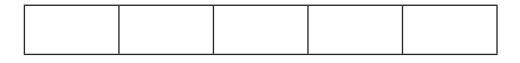


| - | | | | |
|---|---|----|----|-----|
| 2 | 6 | 18 | 54 | 162 |
| | | | | |

- a. What is the pattern for these numbers?
- b. Give the next 3 numbers in this pattern:

9. Create your own pattern

- a. Where does your pattern start?
- b. What do you do to get your pattern?
- c. Give the first 5 number of your pattern:







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

Investigating Numeric Patterns Answers

- 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**