

Understanding Numeric Patterns and Non-Numeric Patterns - Guided Lesson Explanation**Explanation#1**

For finding next three numbers, first we have to find the difference between numbers to understand the pattern. The difference between numbers

$$17 - 9 = 8 \quad 25 - 17 = 8 \quad 33 - 25 = 8 \quad 41 - 33 = 8$$

The pattern is created by increasing each number by 8.

$$\text{Add 8 to 41 } 41+8 = 49, 49+8 = 57, 57 + 8 = 65$$

The Pattern is 9, 17, 25, 33, 41, 49, 57, 65.

Explanation#2

Step 1) The first number is 5, for finding second number

1) Add 3: $5+3=8$

2) Subtract 4: $8-4=4$

3) Multiply by 4: $4 \times 4 = 16$. The second number is 16.

Step 2) By Following Step 1 we find the all six numbers by working off of 16.

Step 3) The numbers are 5, 16, 60, 236, 940, 3756, 15020.

Explanation#3

Step 1) First we see the sequence. In the sequence the first color is purple and the second color is dark blue. The third or fourth color are same as first and second, Fifth and sixth as same as first and second. The seventh is purple and last one is dark blue.

Step 2) The answer is Dark Blue

