

Name _____

Date _____

Analyzing Patterns and Relationships

In this worksheet, we will practice generating sequences, comparing such sequences and finding the relationship between them. For example, if you are asked to generate a sequence starting from 1 such that each next number is 2 times the previous number, the sequence would be 1, 2, 4, 8, 16, 32 and so on. Similarly, you can be asked to identify the missing term in a sequence.

Exercise Questions:

1. Generate a numerical sequence of 'subtract 5' starting from 30 and ending on zero.

2. Generate a numerical sequence such that every next number is greater than the previous number by 4.

3. Write the missing term in this sequence.

1, 3, 5, 7, ____, 11, 13....

4. Write the next term that will come in the following sequence.

2, 6, 10, 14, 18, 22, 26, _____

5. Generate a numerical sequence such that every next value is sum of previous two numbers. Start from 0,1,....(*Hint: Before writing any number, check the sum of previous two numbers*)



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Answer Key

1. Generate a numerical sequence of 'subtract 5' starting from 30 and ending on zero.

30,25,20,15,10,5,0

2. Generate a numerical sequence such that every next number is greater than the previous number by 4.

1,5,9,13,17,21,25,29

3. Write the missing term in this sequence.

1, 3, 5, 7, __, 11, 13.... 1,3,5,7,9,11,13,15

4. Write the next term that will come in the following sequence.

2, 6, 10, 14, 18, 22, 26, 30

5. Generate a numerical sequence such that every next value is sum of previous two numbers. Start from 0,1,....(*Hint: Before writing any number, check the sum of previous two numbers*)

0,1,1,2,3,5,8,13,21,34,55

