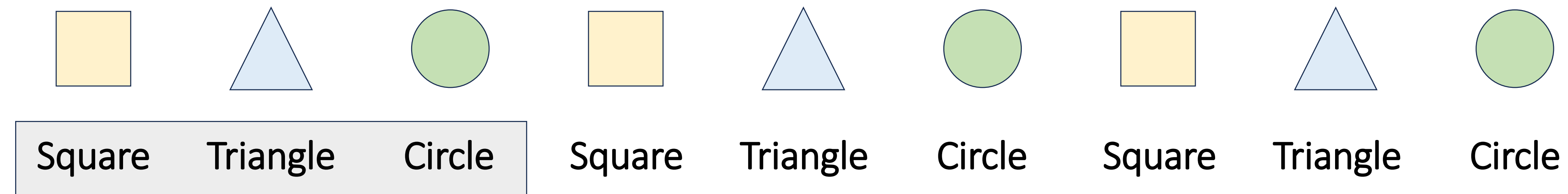


Repeated Patterns

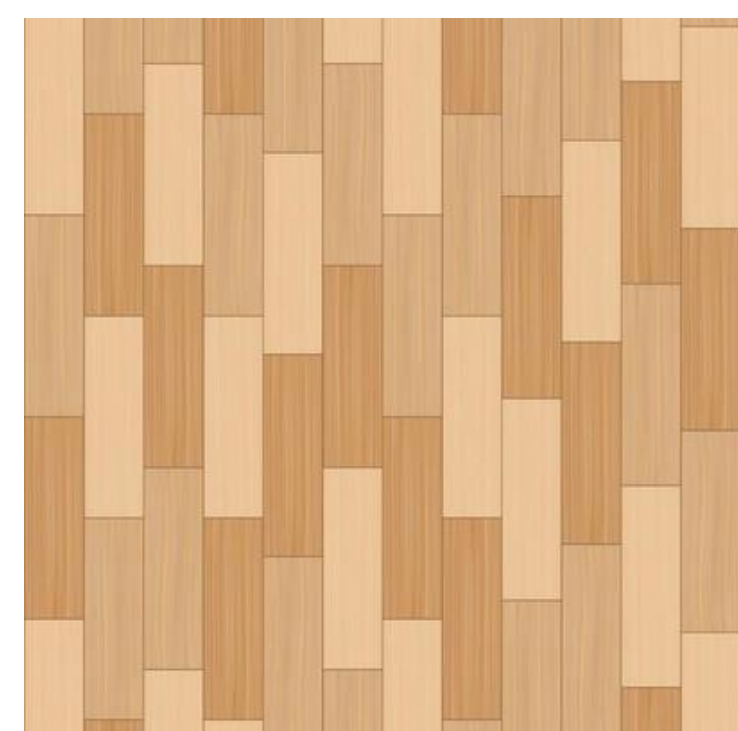
Patterns

- Patterns are created when figures, shapes, objects are arranged in a particular order and repeated over and over again.



This is called a **pattern**. Then, it repeats.

- We see patterns everywhere in our day-to-day experiences.



Floor



Shirt



Top



Tie



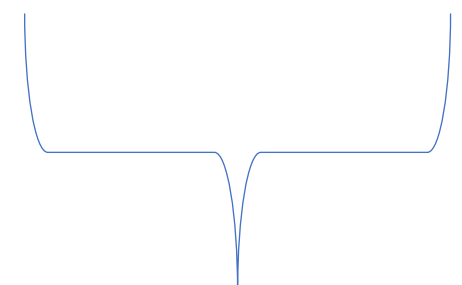
Socks

Repeated pattern

A **repeated pattern** is a specific arrangement of elements that **occurs over and over again**.

Example:

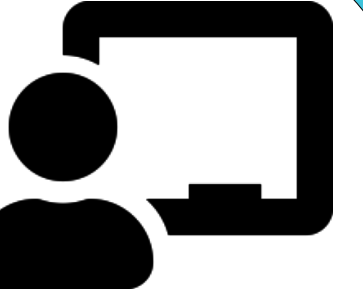
1, 2, 3, 1, 2, 3, 1, 2, 3, 1, 2, 3, 1, 2, 3.

 A blue bracket is drawn under the first sequence of numbers '1, 2, 3' in the example above, indicating that this sequence is the repeating pattern.

Here 1, 2, 3 is the pattern

It repeats again and again.

This is called repeated pattern.



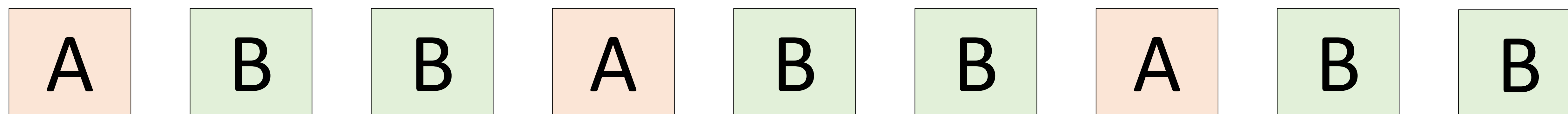
Types of repeated pattern

1. Alphabetical patterns
2. Number patterns
3. Geometrical patterns

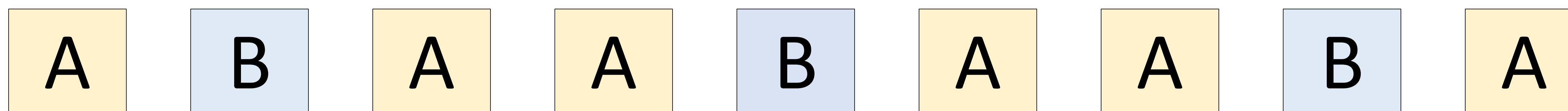


1. Alphabetical Patterns

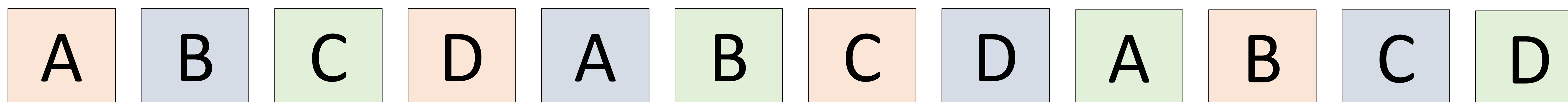
								A, B pattern.	
									A, B, C pattern.
								A, A, B, B pattern.	
									A, A, B pattern.



A, B, B pattern.



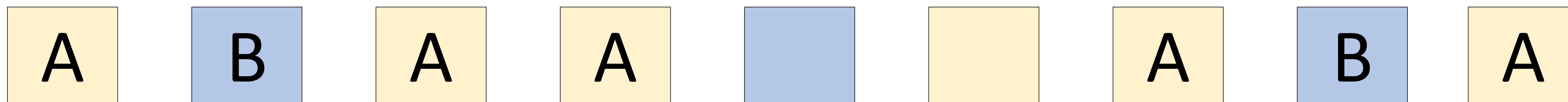
A, B, A pattern.



A, B, C, D pattern.

Example 1:

Find the pattern and the answer

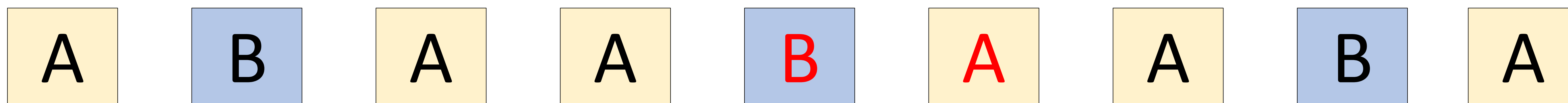


Solution:

A, B, A alphabets are repeated.

A, B, A are the Pattern.

Therefore, the answer will be



Types of repeating patterns

2. Number pattern As same as the alphabets.

1 2 1 2 1 2 1 2 (1, 2 repeats)

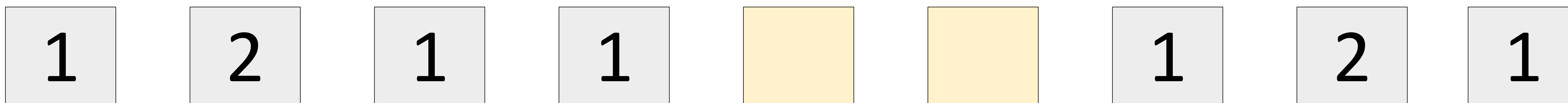
1 2 3 1 2 3 1 2 3 (1, 2, 3 repeats)

1 1 2 2 1 1 2 2 (1, 1, 2, 2 repeats)

1 1 2 1 1 2 1 1 2 (1, 1, 2 repeats)

Example 1:

Find the pattern and the answer

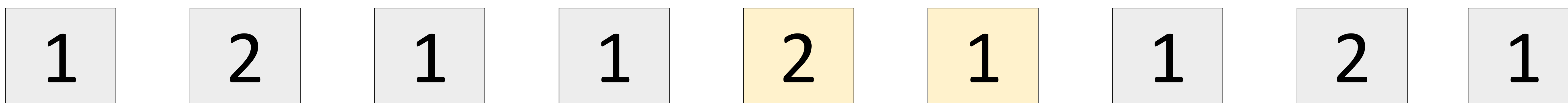


Solution:

1, 2, 1 are the numbers that repeat.

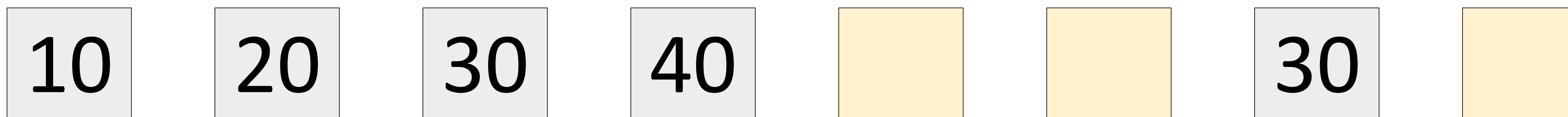
1, 2, 1 are the Pattern.

Therefore, the answer will be



Example 2:

Find the pattern and the answer



Solution:

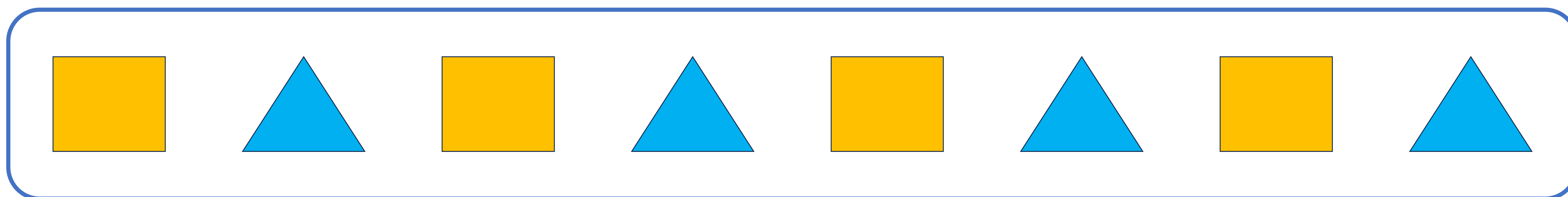
10, 20, 30, 40 are the numbers that repeat.

After 40, here 10 and 20 will come.

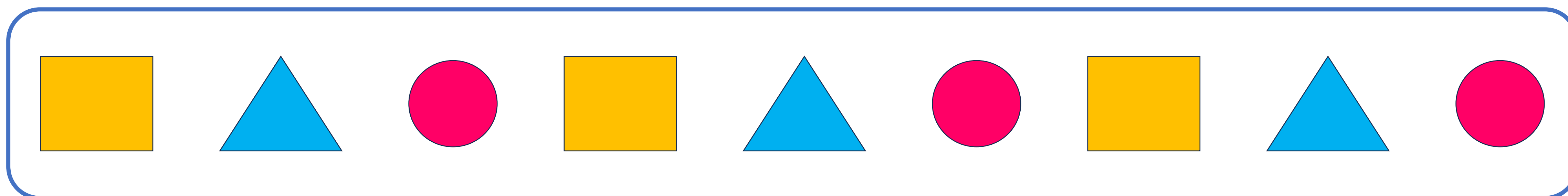
After 30, here 40 will come.



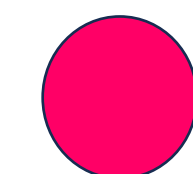


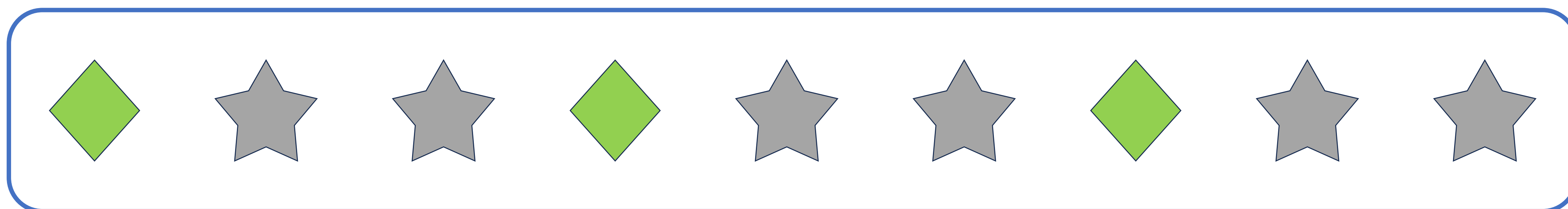
3. Geometrical Patterns






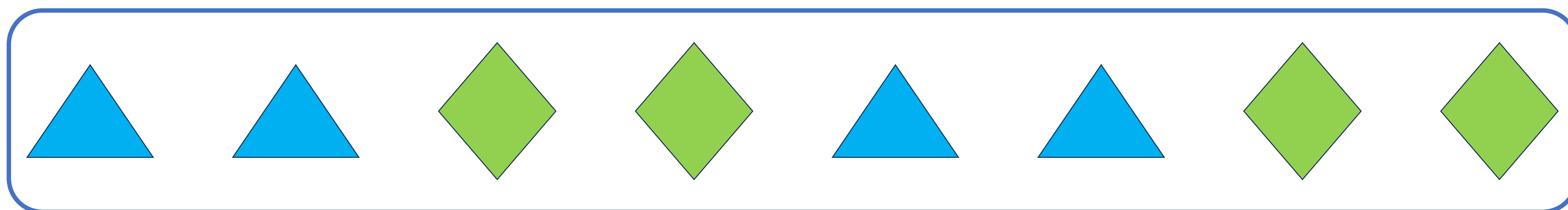
  repeats

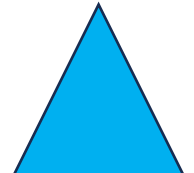





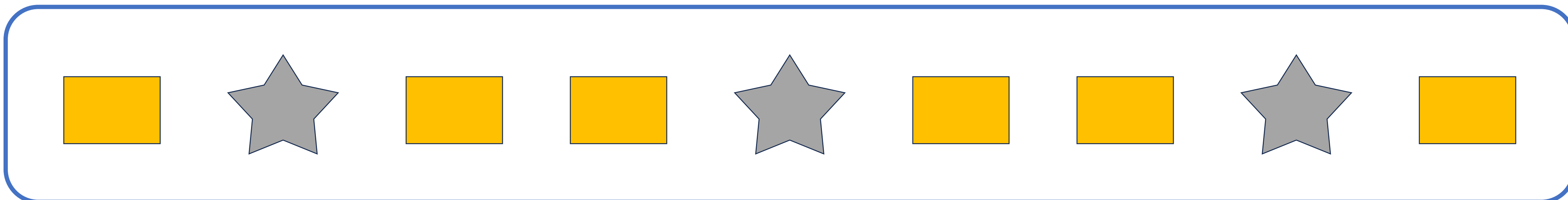
   repeats



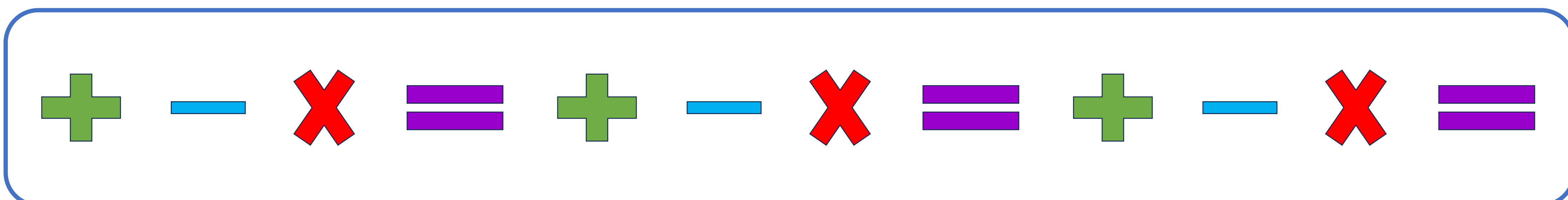
   repeats







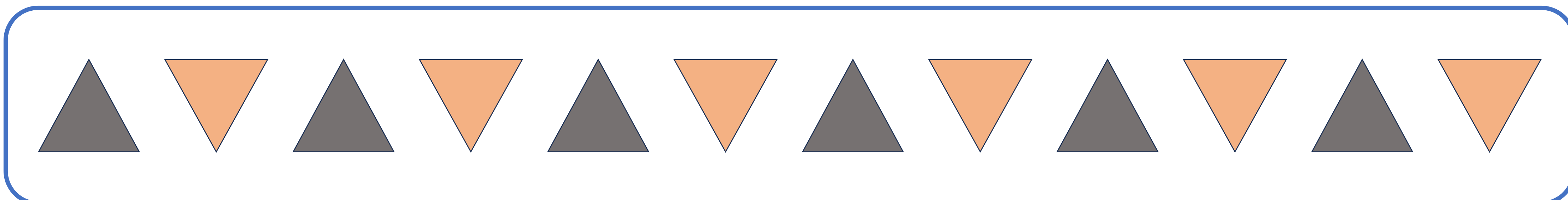
    repeats



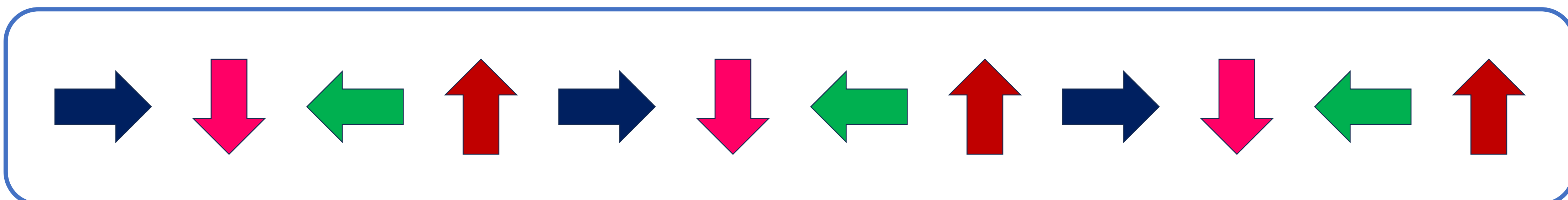
   repeats

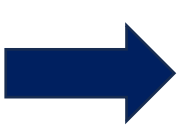

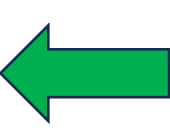
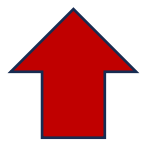


    repeats



  repeats



    repeats

Example 1:

Find the pattern and the answer



Solution:

 are the **shapes** that repeat.

Square, square, triangle, triangle

The answer will be,

