SESSION : 2
CLASS : 3
SUBJECT : MATHEMATICS
CHAPTER NUMBER: 11
CHAPTER NAME : PATTERNS
SUBTOPIC : RULES OF PATTERNS, NUMBER PATTERNS

Children will

* Have ideas of different rules to follow the pattern.

* Understand the presence of patterns in day-to-day life.

* Understand and construct simple number patterns.

PATTERNS
RULES OF PATTERNS, NUMBER PATTERNS

LETS RECAPITULATE
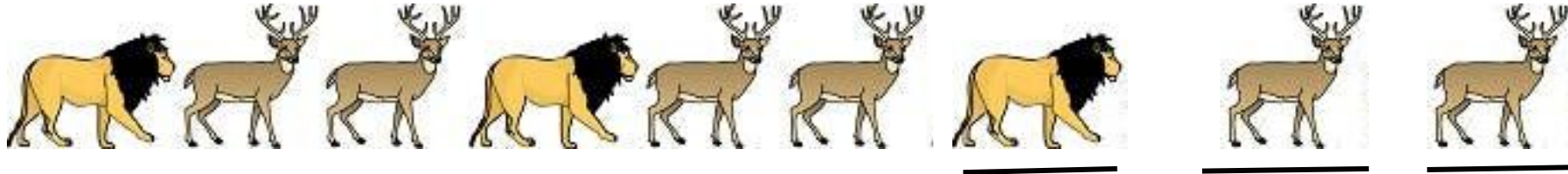
1.

Now can you say what is its unit of repeat????

LETS RECAPITULATE

2.

Now can you say what is its unit of repeat????

PATTERNS
RULES OF PATTERNS, NUMBER PATTERNS

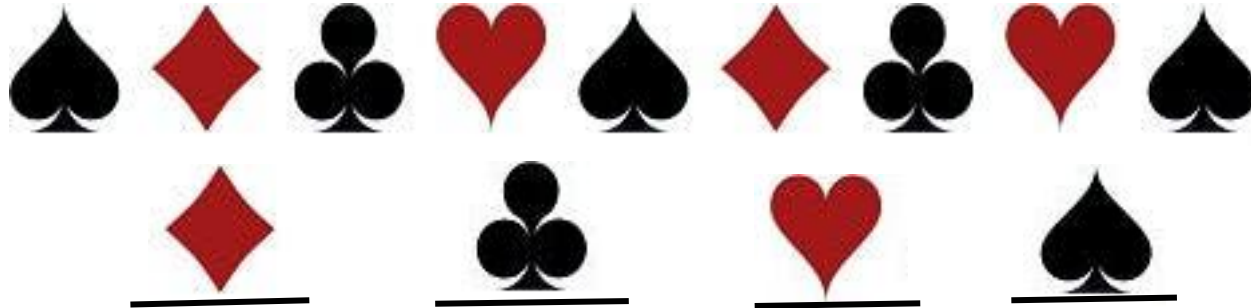**LETS RECAPITULATE**

3.

Now can you say what is its unit of repeat????

LETS RECAPITULATE

4.

Now can you say what is its unit of repeat????

RULES OF PATTERNS, NUMBER PATTERNS

RULES OF PATTERNS

1) The fixed order in which a growing pattern increases is called its rule.

2) A pattern in math is a repeating sequence based on a rule.

3) To find the rule of a pattern, observe how the pattern increases as it moves from one sequence to the next.

RULES OF PATTERNS, NUMBER PATTERNS

NUMBER PATTERN

Number pattern is a pattern or sequence in a series of numbers. This pattern generally establishes a common relationship between all numbers.

There are two types of number patterns:

1. Arithmetic Sequences

2. Geometric Sequences

Types of Number Patterns

There are two common number sequence patterns:
1. Arithmetic Sequences   2. Geometric Sequences

Arithmetic Sequence
Arithmetic sequences are sequences of numbers with constant differences between consecutive terms.
Ex. - 1, 4, 7, 10, 13, 16, ... is an arithmetic sequence because the difference between consecutive terms is 3.
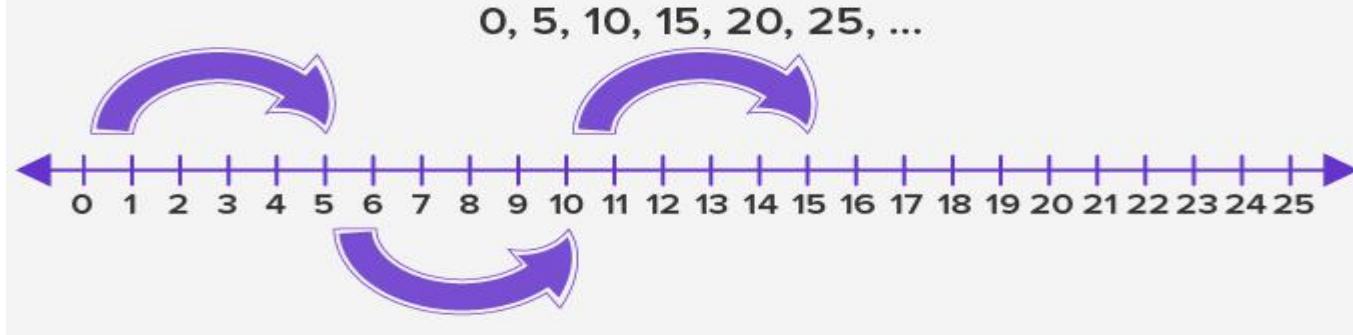
Geometric Sequences
The geometric progression is a relation between two non-zero numbers in which, the difference between consecutive terms is not a constant.
Ex. - 1, 4, 8, 11, 15, 18, ...is a Geometric sequence because the difference between consecutive terms is not even.

PATTERNS
RULES OF PATTERNS, NUMBER PATTERNS

Let us understand

0, 5, 10, 15, 20, 25, ...

* Here, we get the numbers in the pattern by skip counting by 5. Given are the steps to identify a number pattern.
* To solve the problems of number pattern, we need first to find the rule being followed in the pattern.
* To find out the rule, we need to see the first few numbers in the series.
* Try to see the difference between consecutive numbers, it will help us understand the relationship between the numbers.

Exercise-11 Q. No A and B book page 137 in the notebook

MATHS

PATTERNS
RULES OF PATTERNS, NUMBER PATTERNS

1. B, D, F, H, J   ___L___, ___N___, ___P___   Start at B, skip one letter each time

2. A, C, E, G, I, K   ___M___, ___O___, ___Q___

Start at A, skip one letter each time

3. aA, bB, cC, dD   ___eE___, ___fF___, ___gG___

Small letter followed by capital letter

4. AbB, CdD, EfF, GhH __IjJ__, __KlL__ , __MnN__

Start at AB, seperated by small letter of the second alphabet followed in sequence.

5. AbC, DeF, GhI, JkL __MnO__ , __PqR__ , __StU__

English letters, three at a time, starting from A, but the middle alphabet in small.

PATTERNS
RULES OF PATTERNS, NUMBER PATTERNS

B. Complete the following number patterns and write the rule in the blank space.

1.   5, 10, 15, 20, 25   __30__ , __35__ , __40__   __Start at 5 and add 5 each time__

2.   10, 20, 30, 40, 50   __60__ , __70__ , __80__   __Start at 10 and add 10 each time__

3. 125, 150, 175, 200   __225__ , __250__ , __275__

__Start at 125 and add 25 each time__

RULES OF PATTERNS, NUMBER PATTERNS

4. 900, 800, 700, 600   __500__,   __400__,   __300__
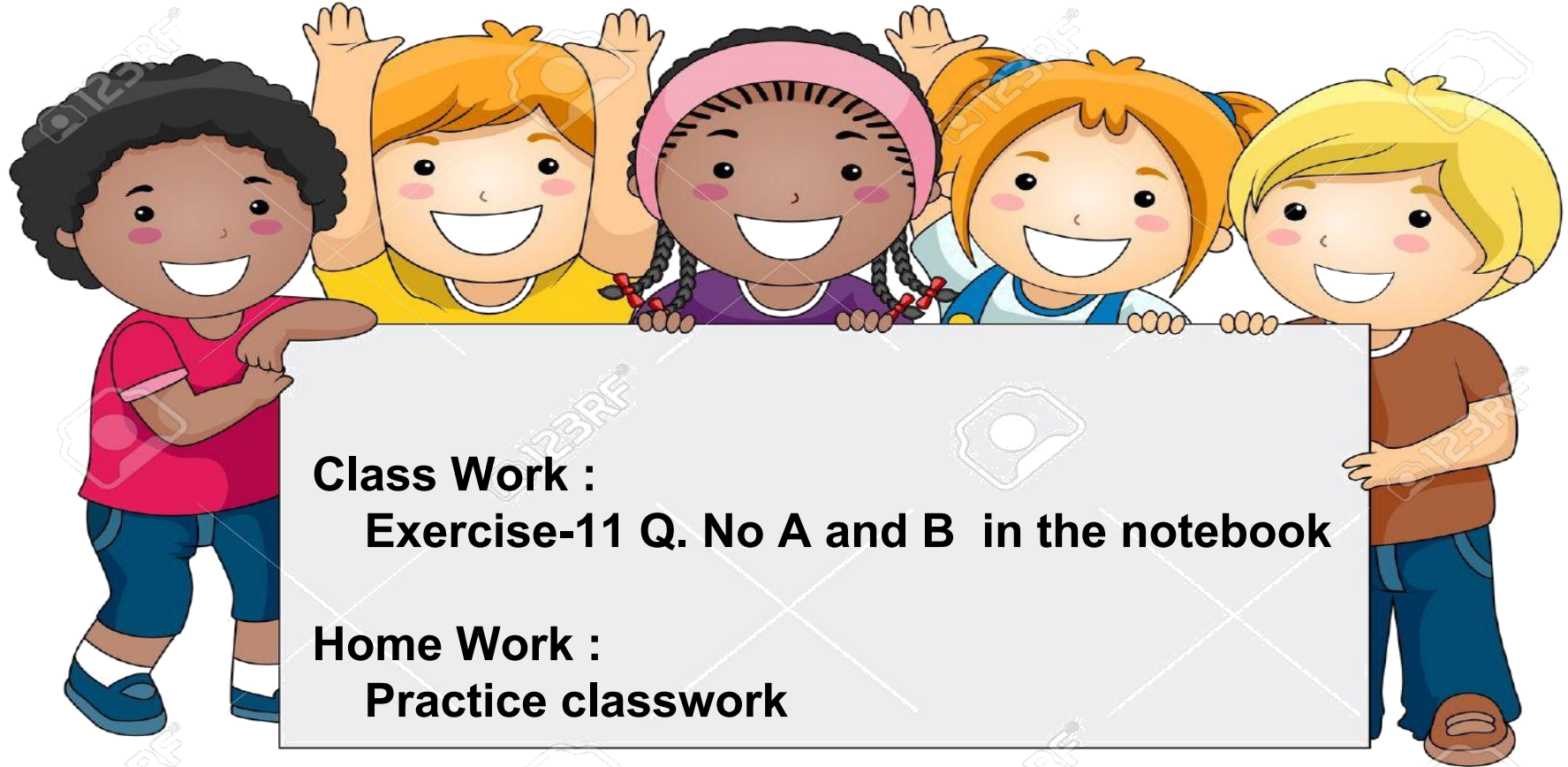
Start at 900 and subtract 100 each time

5. 950, 900, 850, 800   __750__,   __700__,   __650__

Start at 950 and subtract 50 each time

PATTERNS

RULES OF PATTERNS, NUMBER PATTERNS

Class Work :
   Exercise-11 Q. No A and B in the notebook

Home Work :
   Practice classwork

Children will be able to have ideas of different rules to follow the pattern. Understand the presence of patterns in day-to-day life and construct simple number patterns.

THANKING YOU
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