ODM EDUCATIONAL GROUP
Changing your Tomorrow

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

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PATTERNS

RULES OF PATTERNS, NUMBER PATTERNS

LETS RECAPITULATE

1. 

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

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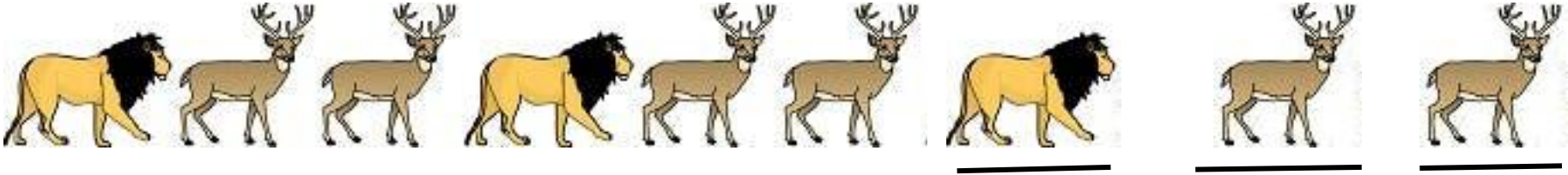
LETS RECAPITULATE

2. 

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

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LETS RECAPITULATE

3.  _____ _____  _____

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

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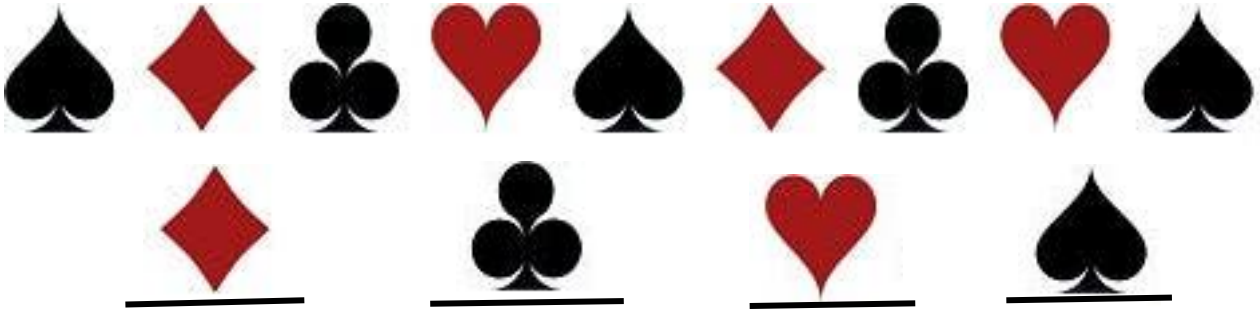
LETS RECAPITULATE

4. 

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

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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.

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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

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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.

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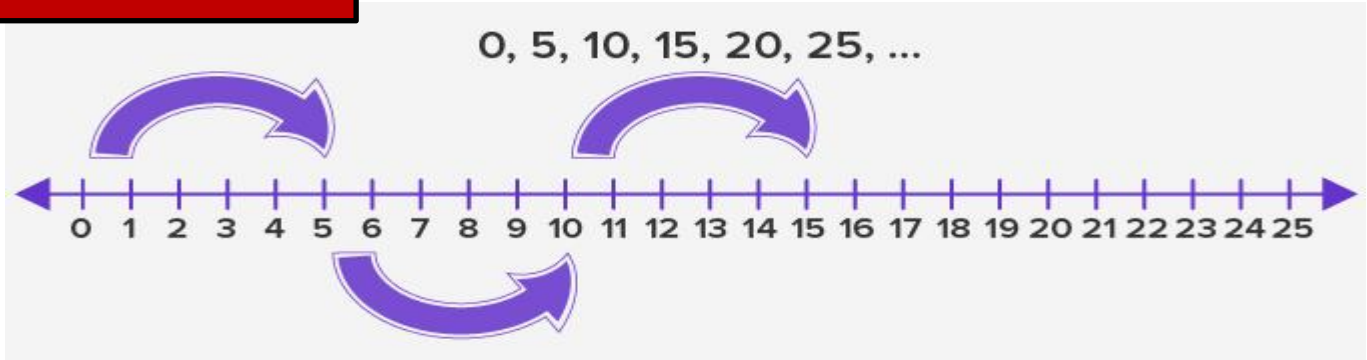
Let us understand



*** 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.**

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

MATHS

PATTERNS

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A. Complete the following letter 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

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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, Ghl, JkL ___MnO___, ___PqR___, ___StU___

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

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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

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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

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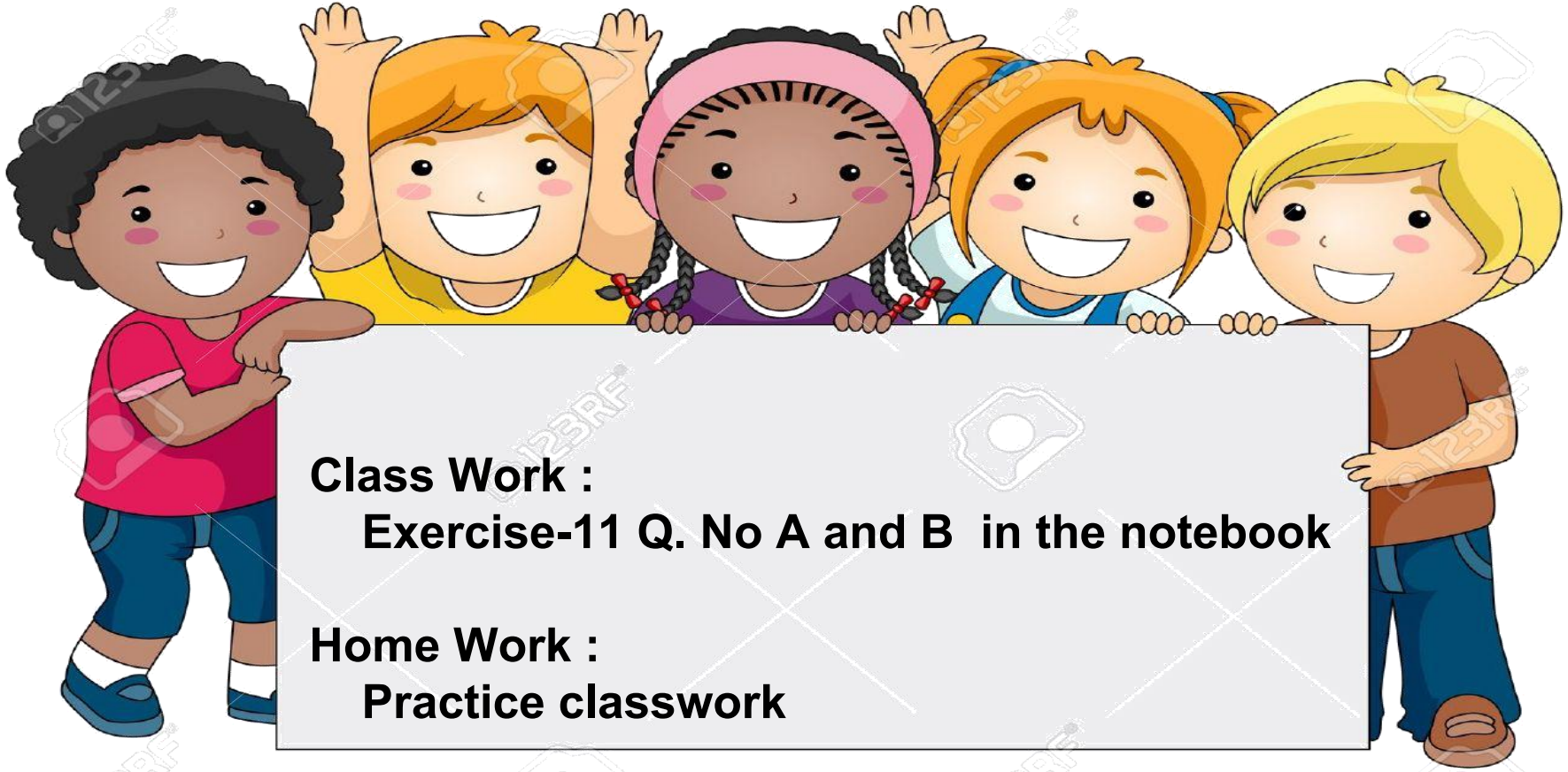

Class Work :

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

Home Work :

Practice classwork

LEARNING OUTCOME:

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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.

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THANKING YOU

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