SESSION : 13
CLASS : IV
SUBJECT : MATHEMATICS
CHAPTER NUMBER : 18
CHAPTER NAME : PATTERNS
SUBTOPIC : INTRODUCTION OF PATTERNS, GEOMETRICAL PATTERNS AND NUMBER PATTERN, EX-18 A

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE

- **Enable the students to understand about the geometric pattern and number pattern.**

PATTERNS

The arrangement in which colours, designs, shapes or numbers are arranged according to a rule is called **pattern**.

The pattern consisting of colours, designs or shapes is called a **geometrical pattern**.
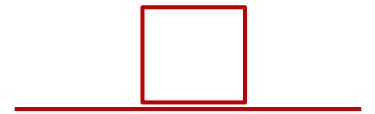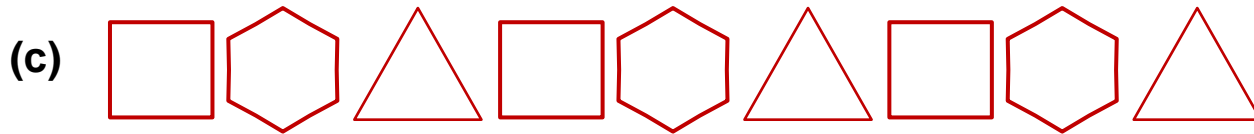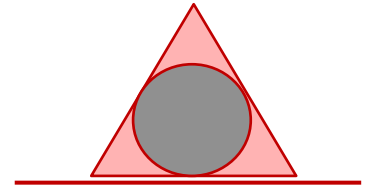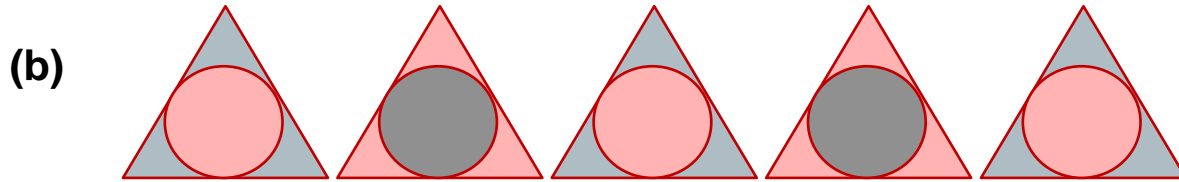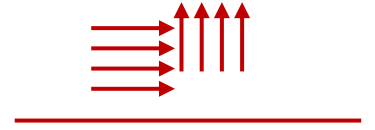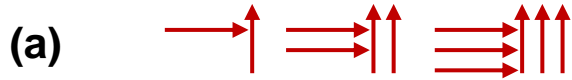
The pattern consisting of numbers is called a number **pattern**.

REVISION

1. Complete the following patterns by drawing the figure that should come next.

(a)

(b)

(c)

(d)

1. Complete the following patterns by drawing the figure that should come next.

(e)

(f) A   AB   ABC   ABCD   ABCDE   **ABCDEF**

(g) AZ   BY   CX   DW   EV   **FU**

(h) AC   BD   EG   FH   IK   JL   **MO**

REVISION

2. Complete the following number patterns by writing the next number.

(a) 100, 90, 80, 70, _____ **60**
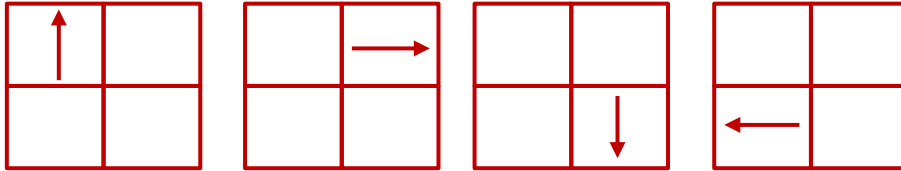
(b) 160, 80, 40, 20, _____ **10**

PATTERNS

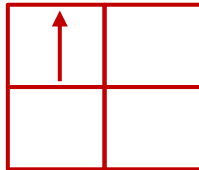In a geometric pattern, one can easily guess the next figure.

EXAMPLE - 1

What will be the next unit of the pattern given below

In the above pattern, arrow is shifting to the next block. At the same time, arrow is also Turing in the clock-wise direction.
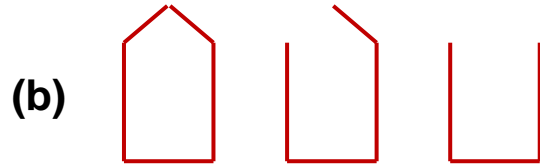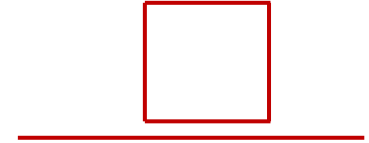
Therefore, the next unit will be

EXAMPLE - 2

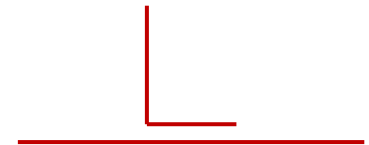Observe the pattern given below and draw the figure that should come next.

(a)

We are adding lines one-by-one in an anticlockwise direction. Therefore, the next figure should be

(b)

We are removing lines one by one in a clockwise direction. Therefore, next figure should be
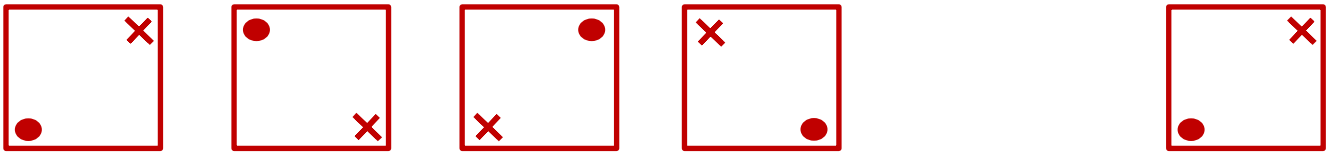
(c)   A   ∀   ⊲

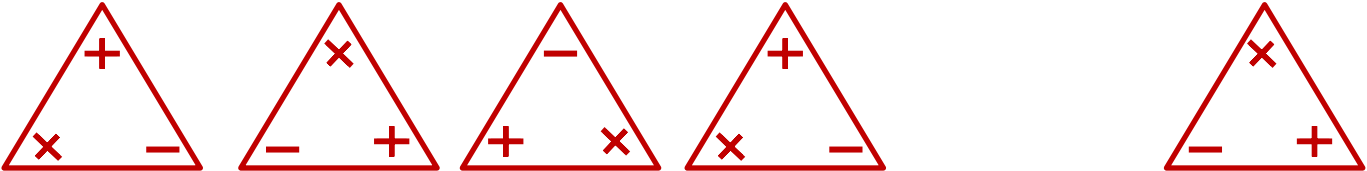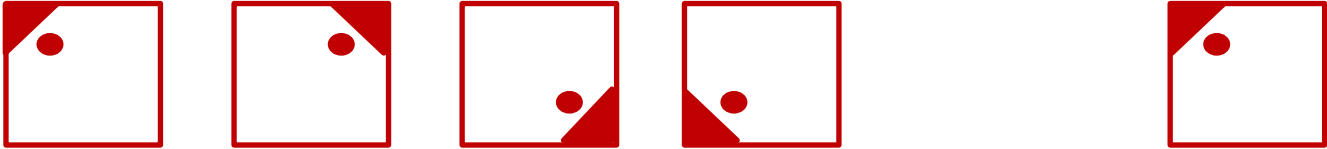Letter A is being rotated in a clockwise direction. Therefore, the next figure should be
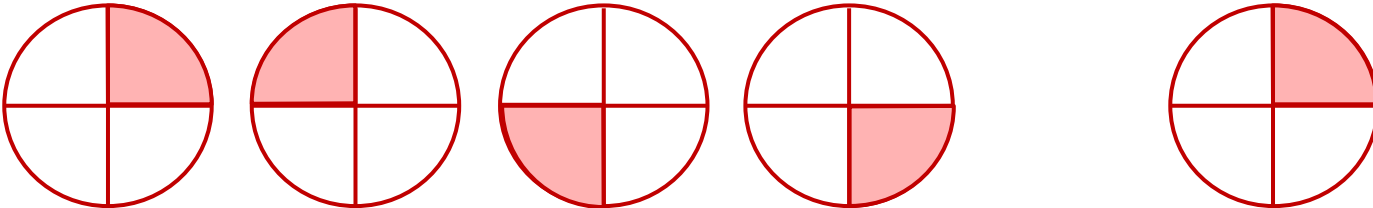
EXERCISE – 18(A)

1. Observe the given pattern and complete their last figures.

(a)

(b)

(c)

(d)

Students are able to understand about the geometric pattern and number pattern.

THANKING YOU
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