Brain International School

Vikas Puri, New Delhi

ASSIGNMENT NO. 1

SUBJECT: MATHEMATICS **CLASS-VI** **APRIL -MAY'2026**

Chapter-1: Number play

1. Write the smallest and largest 4 -digit palindromes. Find their sum and difference.

2. Reverse and add the palindrome 45654.

3. Mark the supercells in a table below:

6828	670	9435	2180
3780	3708	7308	9225
8000	5583	52	5001

4. Find the palindromic numbers by using the following 2-digit numbers:
   59, 10, 15, 22 and 37 and also mention the required number of steps to make it a palindrome.

5. Apply Kaprekar's routine on the number 8228 to get kaprekar constant.

6. Pranav uses the digits '5', '2', '6', and '3' to make the smallest and largest 4-digit numbers with them: 2356 and 6532.
   The difference between these two numbers is 6532 – 2356 = 4176.
   The sum of these two numbers is 8888.

   Choose 4-digits to make:

   (a) The difference between the largest and smallest numbers greater than 4176.
   (b) The sum of the largest and smallest numbers greater than 8888.

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ASSIGNMENT NO. 2

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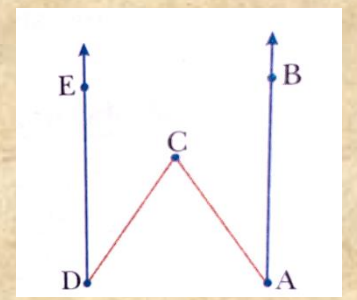
Chapter 2: Lines and angles

1. Identify and name the line segments and rays in following figure:

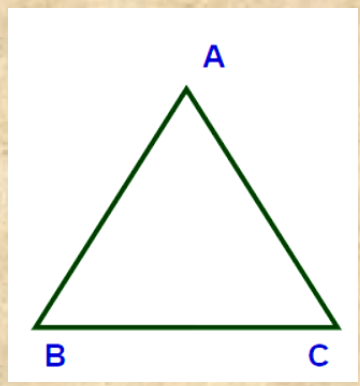


2. Draw a rough figure and label suitably for each of the following cases:

   (i) A, B and C are collinear points.

   (ii) $\overleftrightarrow{LM}$ and $\overleftrightarrow{CD}$ meet at X.

3. In a given triangle ABC. Name the following:
   a) Angle opposite to side BC.
   b) Vertex opposite to side AC
   c) Side opposite to vertex B.



4. How many degrees are there in the angle between the hour hand and the minute hand of a clock, when it indicates 9 o'clock?

5. A, B, C, D are four points on a straight line where AB= 3cm, AC= 6cm, CD= 3cm and AD = 9cm. Verify that B is the mid-point of AC.

6. Draw ∠PQR = 125° and answer the following:
   a) Name of angles in three ways.
   b) Arms of an angle
   c) Vertex
   d)Type of angle

7. Observe the given figure. Identify and name one angle of each case.
   (i) Straight angle
   (ii) Acute angle
   (iii) Right angle
   (iv) Obtuse angle