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|------------------------|--|
| CLASS | VI |
| SUBJECT | MATHS |
| TOPIC | Understanding Elementary Shapes |
| SUBTOPIC | Types of Triangles |
| NO. OF SESSIONS | 1 |

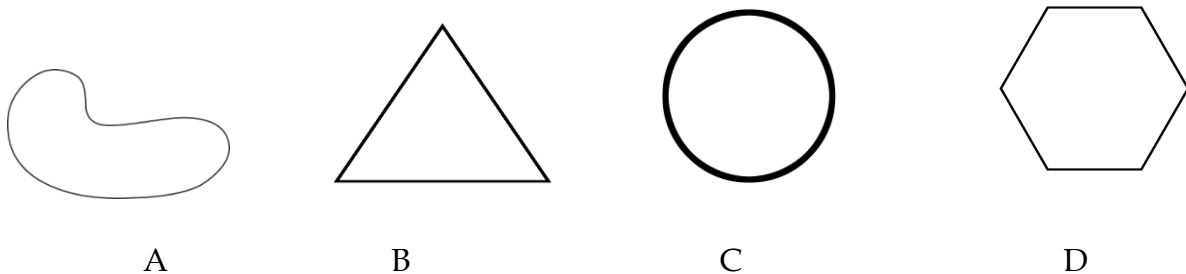
Introduction:

POLYGON:

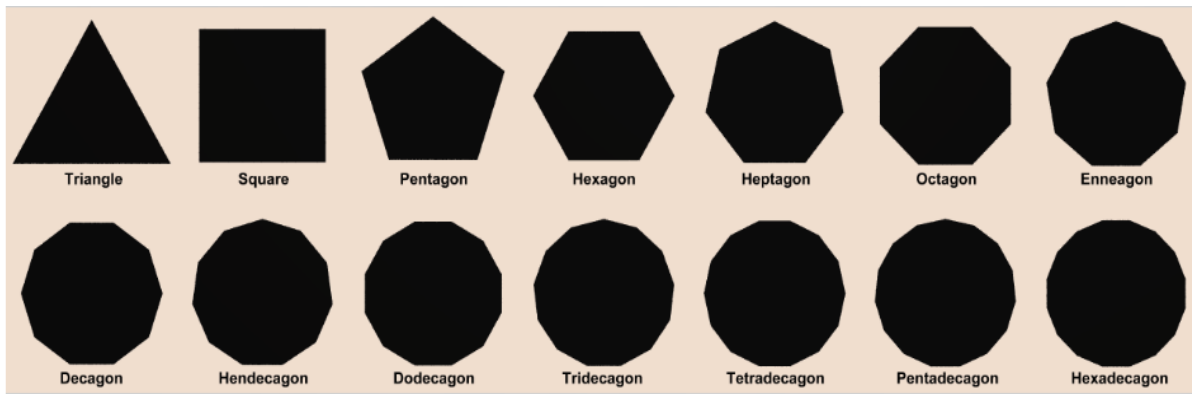
A closed figure made of line segment is a polygon.

Assignment1:

1. Which of the following are polygons?



Types of polygons

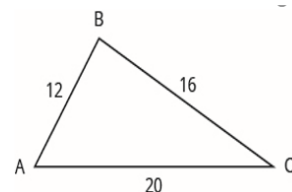


2. The smallest polygon is _____.

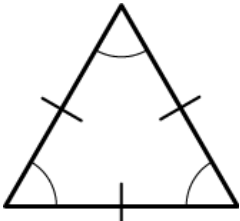
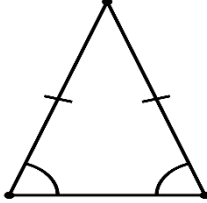
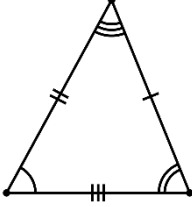
Triangle:

Sides: AB= 12 cm, BC =16 cm, AC=20 cm

Angles: $\angle A$, $\angle B$, $\angle C$



Naming triangles based on "SIDES OF TRIANGLE":

| EQUILATERAL TRIANGLE | ISOSCELES TRIANGLE | SCALEDNE TRIANGLE |
|---|---|---|
|  |  |  |
| <p>Three sides of triangle are equal</p> | <p>Two sides of a triangle. Base angles are equal.</p> | <p>Three sides are not Equal</p> |


Assignment 2:

Identifying Triangles

Sides: 51

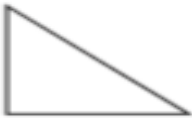
Identify each triangle based on sides. (Equilateral, Isosceles or Scalene)

1)




Scalene triangle


2)




3)




4)




5)




6)




7)




8)




9)




10)



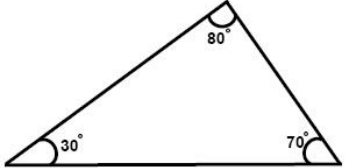
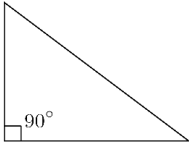
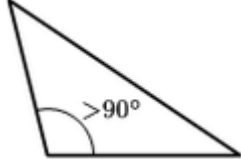
11)



12)



Naming triangles based on "ANGLES OF TRIANGLE":

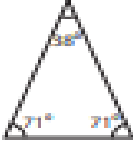
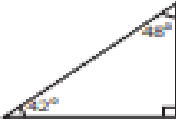

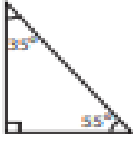
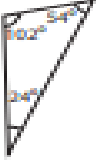

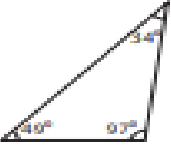
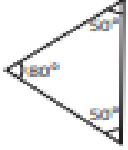


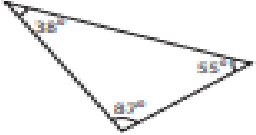

| ACUTE ANGLED TRIANGLE | RIGHT ANGLED TRIANGLE | OBTUSE ANGLED TRIANGLE |
|---|---|---|
|  |  |  |
| Each angle is less than 90° | One of the angle is 90° | One of the angle is greater than 90° |

Assignment 3:

Identifying Triangles

Angles - Numerals: 51

Identify each triangle based on angles. (Acute, Obtuse or Right)

| | | |
|--|---|---|
| <p>1)</p>  <p style="text-align: center;">Acute triangle</p> <hr style="width: 100%;"/> | <p>2)</p>  <hr style="width: 100%;"/> | <p>3)</p>  <hr style="width: 100%;"/> |
| <p>4)</p>  <hr style="width: 100%;"/> | <p>5)</p>  <hr style="width: 100%;"/> | <p>6)</p>  <hr style="width: 100%;"/> |
| <p>7)</p>  <hr style="width: 100%;"/> | <p>8)</p>  <hr style="width: 100%;"/> | <p>9)</p>  <hr style="width: 100%;"/> |
| <p>10)</p>  <hr style="width: 100%;"/> | <p>11)</p>  <hr style="width: 100%;"/> | <p>12)</p>  <hr style="width: 100%;"/> |

Assignment 4:

Match the following :

Measures of Triangle

- (i) 3 sides of equal length
- (ii) 2 sides of equal length
- (iii) All sides are of different length
- (iv) 3 acute angles
- (v) 1 right angle
- (vi) 1 obtuse angle
- (vii) 1 right angle with two sides of equal length

Type of Triangle

- (a) Scalene
- (b) Isosceles right angled
- (c) Obtuse angled
- (d) Right angled
- (e) Equilateral
- (f) Acute angled
- (g) Isosceles

Homework: NCERT Exercise 5.6 Question.No 1, 3