



Nalanda Collage – Colombo 10

Grade 09 – Third Term

Unit Test 25

Mathematics

Angles of a Polygon

$1\frac{1}{4}$ hours

Part I

- Fill in the blanks.
 - There are sides in a Hexagon.
 - In every polygon number of and number of are equal.
 - In every regular polygon all the are in magnitude.
 - In a regular Hexagon magnitude of an interior angle is
- Find the sum of the interior angles which has 13 sides.
- Find the sum of the interior angles which has 15 sides.
- Find the magnitude of an exterior angle of a regular Pentagon.
- Find the sum of the exterior angles of a regular Decagon.

Part II

- In a Heptagon, interior angles are 120° , 150° , 118° , 132° and 110° . Other two angles are equal in magnitude. Find the magnitude of unknown interior angle.
- In a quadrilateral, ratio of interior angles are 1:2:2:3. Find the magnitudes of each interior angle.
- Find the sum of interior angles of a regular Octagon.
 - Find the magnitude of an interior angle.
 - Calculate the magnitude of an exterior angle.

4. In a Dodecagon all the exterior angles are equal in magnitude.
- (i) Find the magnitude of an exterior angle.
 - (ii) Find the magnitude of an interior angle.
 - (iii) Find the sum of the interior angles.
5. Find the number of sides of a regular polygon when an exterior angle is 20° .
- (i) Find the magnitude of an interior angle.
 - (ii) Find the sum of the interior angles.



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