



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Algebra and Geometry

Class: 7

Date: 16.11.20

Duration: 40 min

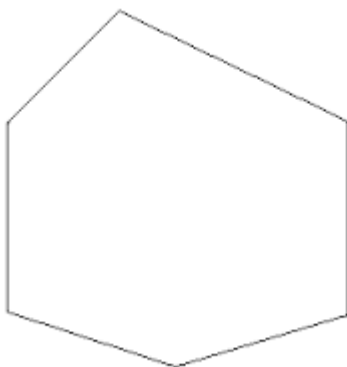
Worksheet 04

Full Marks: 15

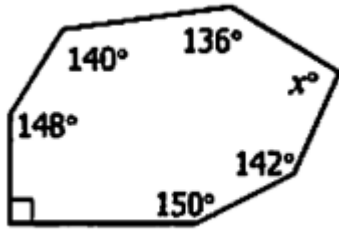
Polygon

Choose the Correct options:

1. What is the sum of the interior angles of a triangle?
 - a. 60°
 - b. 90°
 - c. 120°
 - d. 180°
2. What is the measure of ONE interior angle in a regular pentagon (5-sides)?
 - a. 90°
 - b. 108°
 - c. 120°
 - d. 180°
3. What is the sum of the interior angles of a nonagon (9 sides)?
 - a. 1440°
 - b. 900°
 - c. 1080°
 - d. 1260°
4. Find the angle sum of the interior angles of the polygon.



- a. 180°
 - b. 540°
 - c. 720°
 - d. 1080°
5. Find the value of X



- a. 94
 - b. 25
 - c. 36
 - d. 180
6. What is the name of a 7 sided polygon?
- a. Hexagon
 - b. Heptagon
 - c. Octagon
 - d. nonagon
7. How many sides does an octagon have?
- a. 8
 - b. 7
 - c. 6
 - d. 9
8. What is the sum of the exterior angles in a decagon?
- a. 10
 - b. 360
 - c. 361
 - d. 440
9. Which formula is used to find the sum of the interior angles of a polygon?
- a. 180
 - b. $(n-2)180 \div n$
 - c. $(n-2)180$
 - d. $n(n-3)/2$
10. If the measure of an exterior angle of a regular polygon is 24° , how many sides does the polygon have?
- a. 12
 - b. 13
 - c. 14
 - d. 15

11. What is a polygon?

- a. A closed figure made up of straight line segments
- b. An open figure made up of straight line segments
- c. A closed figure made up of curved edges
- d. An closed figure made up of crossed line segments

12. A polygon's interior angles add up to 2700. How many sides does the polygon have?

- a. 17
- b. 15
- c. 19
- d. 11

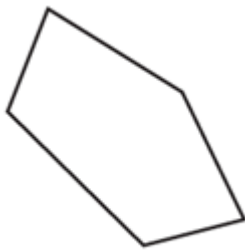
13. Find the number of sides of a regular polygon with one interior angle measuring 165°

- a. 24
- b. 22
- c. 26
- d. 20

14. Josh drew a heptagon as a window on his picture. How many sides does his window have?

- a. 6
- b. 7
- c. 8
- d. 9

15. Is the figure a polygon? Is it convex or concave?



- a. Not a polygon, convex
- b. Polygon, convex
- c. Not a polygon
- d. Polygon, concave