

AIS Learning

O/L Mathematics Practice Tutorial

Lesson 01: Introduction To Geometry

1. Points, Lines, and Angles:
 - a. Define a point in geometry.
 - b. What is the difference between a line segment and a ray?
 - c. If two lines are perpendicular, what is the measure of each angle formed?
2. Triangles:
 - a. State the Triangle Inequality Theorem.
 - b. If one angle in a triangle is 90 degrees, what is the type of the triangle?
3. Quadrilaterals:
 - a. Define a parallelogram and provide an example.
 - b. In a rectangle, what is the measure of each angle?
4. Circles:
 - a. Define the terms radius and diameter of a circle.
 - b. What is the relationship between the circumference and diameter of a circle?
5. Polygons:
 - a. What is the sum of the interior angles of a hexagon?
 - b. Define a regular polygon.
6. Area and Perimeter:
 - a. How do you calculate the perimeter of a rectangle?
 - b. Calculate the area of a triangle with a base of 8 units and a height of 6 units.

7. Transformations:

- a. Explain what a reflection in geometry means.
- b. If a figure is rotated 90 degrees clockwise, what kind of transformation is it?

8. Similarity and Congruence:

- a. Define similar triangles.
- b. Two angles of one triangle are equal to two angles of another triangle. What can you conclude about the third angle?

9. Volume and Surface Area:

- a. How do you find the volume of a rectangular prism?
- b. Calculate the surface area of a cube with a side length of 4 units.

10. Coordinate Geometry:

- a. Explain the concept of slope in a linear equation.
- b. If two points in a coordinate system are (3, 4) and (7, 8), find the distance between them.

Try those questions by yourself and submit your answers to us.

We can evaluate it for you!!!!

Happy Learning!!!!

-Evaluation Team AIS Learning