

Practical Geometry

Question 1.

Sum of all interior angles of a polygon with (n) sides is given by

- (a) $(n - 2) \times 180^\circ$
- (b) $n - 2 \times 180^\circ$
- (c) $(n + 2) \times 180^\circ$
- (d) $(n + 2) \times 180^\circ$

Answer: (a) $(n - 2) \times 180^\circ$

Question 2.

Polygons that have no portions of their diagonals in their exteriors are called

- (a) triangles
- (b) convex
- (c) concave
- (d) squares

Answer: (b) convex

Question 3.

What is the number of sides in Hexagon ?

- (a) 4
- (b) 7
- (c) 6
- (d) 5

Answer: (c) 6

Question 4.

A parallelogram must be a rectangle if its diagonals

- (a) bisect the angles to which they are drawn
- (b) are perpendicular to each other

- (c) bisect each other
- (d) are congruent

Answer: (d) are congruent

Question 5.

Diagonals of a rectangle:

- (a) equal to each other
- (b) not equal
- (c) one is double of the other
- (d) none of these

Answer: (a) equal to each other

Question 6.

A simple closed curve made up of only _____ is called a polygon .

- (a) lines
- (b) curves
- (c) closed curves
- (d) line segments

Answer: (d) line segments

Question 7.

To construct a quadrilateral uniquely, it is necessary to know at least _____ of its parts.

- (a) 5
- (b) 4
- (c) 3
- (d) 2

Answer: (a) 5

Question 8.

All the angles of a regular polygon are of _____.

- (a) 90°
- (b) 60°
- (c) equal length
- (d) equal measure

Answer: (d) equal measure

Question 9.

The diagonals of a square bisect each other at _____ angle.

- (a) acute
- (b) right
- (c) obtuse
- (d) reflex

Answer: (b) right

Question 10.

The quadrilateral whose diagonals are equal and bisect each other at right angle is _____.

- (a) Triangle
- (b) Square
- (c) Rhombus
- (d) None of these

Answer: (b) Square

Question 11.

A parallelogram whose all sides are equal is called _____.

- (a) triangle
- (b) trapezium
- (c) square
- (d) rectangle

Answer: (c) square

Question 12.

A quadrilateral can be constructed uniquely if its _____ sides and two included angles are given.

- (a) 1
- (b) 2
- (c) 3
- (d) none of these

Answer: (c) 3

Question 13.

The ratio of two adjacent sides of a parallelogram is 4:5. If its perimeter is 72 cm, find its adjacent sides.

- (a) 18 cm and 25 cm
- (b) 16 cm and 25 cm
- (c) 18 cm and 20 cm
- (d) 16 cm and 20 cm

Answer: (d) 16 cm and 20 cm

Question 14.

What do we require to construct a quadrilateral if measures of three angles are given?

- (a) Length of one side
- (b) Two adjacent sides
- (c) Length of one diagonal
- (d) None of these

Answer: (b) Two adjacent sides

Question 15.

A parallelogram each of whose angles measures 90° is _____.

- (a) rectangle
- (b) rhombus
- (c) kite
- (d) trapezium

Answer: (a) rectangle

Question 16.

The measure of each interior angle of a regular polygon is 140° , then number of sides that regular polygon has ____

- (a) 15
- (b) 12
- (c) 9
- (d) 10

Answer: (c) 9

Question 17.

A quadrilateral can be constructed uniquely if the lengths of its _____ sides and a diagonal are given.

- (a) 3
- (b) 1

- (c) 2
- (d) 4

Answer: (d) 4

Question 18.

A quadrilateral can be constructed uniquely if the lengths of its four sides and ____ diagonal are given.

- (a) 3
- (b) 2
- (c) 1
- (d) none of these

Answer: (c) 1

Question 19.

What do we require to construct a quadrilateral if measures of two adjacent angles are given?

- (a) Lengths of three sides
- (b) Length of one side
- (c) Lengths of two sides
- (d) None of these

Answer: (a) Lengths of three sides

Question 20.

What do we require to construct a square?

- (a) Length of one side
- (b) Lengths of three sides
- (c) Lengths of two sides
- (d) None of these

Answer: (a) Length of one side

Question 21.

A polygon with minimum number of sides is

- (a) Pentagon
- (b) Square
- (c) triangle
- (d) angle

Answer: (c) triangle

Question 22.

What do we require to construct a quadrilateral if lengths of four sides are given?

- (a) One of the angle
- (b) Length of a diagonal
- (c) Length of two diagonals
- (d) None of these

Answer: (b) Length of a diagonal
