

Class-4

Subject-Mathematics

Chapter - 14 (Triangle)

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Revision sheet

Triangle: A triangle is a closed figure with three sides.



Here, ABC is a triangle.

Characteristics:

- 1) It has three sides.
- 2) It has three corners / vertices.
- 3) It has three angles.
- 4) All triangles have angles adding up to 180°.

Types of triangles based on sides:

There are three types of triangle based on the sides. They are:

- 1) Equilateral triangle
- 2) Isosceles triangle
- 3) Scalene triangle

1) Equilateral triangle: Equilateral triangle has three equal sides, three equal angles and they are always 60°.



Here, ABC is an equilateral triangle.

Characteristics:

- 1) Three sides are equal.
- 2) Three angles are equal.
- 3) All angles are 60°.

2) Isosceles triangle: Isosceles triangle has two equal sides.



Here, ABC is an isosceles triangle.

Characteristics:

- 1) Two sides are equal.
- 2) Two angles are equal.

3) Scalene triangle: Scalene triangle has no equal sides.



Here, ABC is a scalene triangle.

Characteristics:

- 1) No equal sides.
- 2) No equal angles.

Types of triangles based on angles:

There are three types of triangle based on the angles. They are:

- 1) Acute angled triangle
- 2) Right angled triangle
- 3) Obtuse angled triangle

1) Acute angled triangle: Acute angled triangles have all acute angles. All three angles are less than 90°.



Here, ABC is an acute angled triangle. Here < A, < B and < C are less than 90°.

2) Right angled triangle: Right angled triangles have one right angle. One of the angles is 90°.



Here, ABC is a right angled triangle. $< A = 90^{\circ}$.

3) Obtuse angled triangle: Obtuse angled triangle have one obtuse angle. One of the angles is greater than 90°.



Here, ABC is an obtuse angled triangle. < B is greater than 90°.

Exercise

- 1) Draw an equilateral triangle with sides of 6 cm.
- 2) Draw an isosceles triangle with sides of 9 cm, 7 cm and 7 cm.
- 3) Draw a scalene triangle with sides of 3 cm, 5 cm and 8 cm.
- 4) Draw an acute angled triangle with one of the angles is 60°.
- 5) What is obtuse angled triangle?
- 6) Draw a triangle with one of the angles is 90°.
- 7) Draw an obtuse angled triangle with one of the angles 120°.
- 8) How many types of triangles are there based on sides? What are they?
- 9) What is triangle?
- 10) Write three characteristics of triangle?
- 11) What is the sum of three angles of any triangle?
- 12) Which triangle has three 60° angles?
- 13) Which triangle has two equal sides?
- 14) A triangle that has no equal sides and no equal angles is known as what?
- 15) A triangle that has 2 equal sides and 2 equal angles is known as what?
- 16) A triangle that has 3 equal sides and 3 equal angles is known as what?
- 17) How many vertices does a triangle have?
- 18) How many sides are there in a triangle?
- 19) How many angles are there in a triangle?
- 20) If all the angles of a triangle are acute, the triangle is called _____
- 21) If one angle of a triangle measures 90°, the triangle is called _____
- 22) If one angle of a triangle is obtuse, the triangle is called _____

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