MATHS

BOOKS - RD SHARMA MATHS (HINGLISH)

TRIANGLES

All Questions

1. Take three non-collinear point A, B and C on a page of your notebook. Join AB, BC

and $CA,$ what figure do you get? Name the triangle. Also, name The side opposite to $\angle B$ The angle opposite to side AB The vertex opposite to side BC The side opposite to vertex $B.$

2. Take three collinear point $A,$ B and C on a page of your note book. Join $AB,$ BC and $CA.$ is the figure a triangle? If not, why?

3. Distinguish between a triangle and its triangle region.

4. In fig.9, D is a point on side BC of a ABC. AD is joined. Name all the triangle that you can observe in the figure. How many are they?

5. In fig. 10, A, B, C and D are four points, and no three points are collinear. AC and BD intersect at O. there are eight triangle that you can observe. Name all the triangles.

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6. What is the difference between a triangle and triangular region?

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7. Explain the following terms:

Triangle (ii) parts or elements of a triangle Scalene triangle (iv) isosceles triangle Equilateral triangle (vi) acute triangle Right triangle (viii) obtuse triangle Interior of a triangle (x) exterior of a triangle.

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8. In fig. 11, the length (in cm) of each side has been indicated along the side. State for each

triangle whether it is scalene, isosceles or equilateral:

9. In fig. 12, there are five triangles. The measures of some of their angles have been indicated. Sates for each triangle whether it is acute, right or obtuse.

10. Fill in the blanks with correct word/symbol to make it a true statement: A triangle has .. sides. A triangle has ..vertices. A triangle has ..angles. A triangle has ..parts. A triangle whose on two side are equal is known as.. A triangle whose two sides are equal is known as A triangle whose all the sides are equal is known as A triangle whose one angle is a right angle is known as. A triangle whose all the angles are of measure less than 90^0 is known as A triangle whose one angle is more than 90^0 is known as.....

11. In each of the following, state if the statement is true (T) or false (F): A triangle has three sides. A triangle may have four vertices. Any three line-segments make up a triangle. The interior of a triangle includes its vertices. The triangular regain includes the vertices of the corresponding triangle. The vertices of a triangle are three collinear points. An equilateral triangle is isosceles also. Every

right triangle is scalene. Each acute triangle is equilateral. No isosceles triangle is obtuse.

12. Total number of parts of a triangle is 3

(b) 6   (c) 9

13. A perpendicular drawn from a vertex to the opposite side of a triangle is known as an

altitude   (b) a median   (c) an angle

bisector a bisector

14. A triangle may not have an altitude   (b)

can have at most 3 altitudes has three

altitudes   (d) has only one altitude

15. Line segments joining the vertices to the mid-points of the opposite sides to a triangle are known as medians   (b) altitudes   (c) heights   (d) angle bisectors

16. A triangle whose on two sides are equal is called an acute triangle   (b) a scalene triangle an isosceles triangle   (d) an equilateral triangle

17. A triangle whose two sides are equal is known as acute triangle   (b) an isosceles triangle a scalene triangle   (d) a right triangle

18. A triangle whose all sides are equal is called an equilateral triangle   (b) an acute

triangle a right triangle   (d) an

isosceles triangle

19. The sum of the lengths of sides of a

triangle is known as its area   (b)

height   (c) perimeter (d) region

20. A triangle having all sides of different length is known as scalene triangle (b) isosceles triangle an equilateral triangle (d) an acute triangle

21. A triangle whose one angle is more than 90^0 is called a scalene triangle (b) a right triangle an acute triangle (d) an obtuse triangle