



MATHS

BOOKS - RD SHARMA MATHS

(ENGLISH)

TRIANGLES

Others

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 .



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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?



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3. Distinguish between a triangle and its triangle region.



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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?



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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: (i) Triangle (ii) parts or elements of a triangle (iii) Scalene triangle (iv) isosceles triangle (v) Equilateral triangle (vi) acute triangle (vii) Right triangle (viii) obtuse triangle (ix) 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:



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



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10. Fill in the blanks with correct word/symbol to make it a true statement: (i) A triangle has .. sides. (ii) A triangle has ..vertices. (iii) A triangle has ..angles. (iv) A triangle has ..parts. (v) A triangle whose no two side are equal is known as.. (vi) A triangle whose two sides are equal is known as (vii) A triangle whose all the sides are equal is known as (viii) A triangle whose one angle is a right angle is known as. (ix) A triangle whose all the angles are of measure less than 90^0 is known as (x) A triangle whose one angle is more than 90^0 is known as.....



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

triangle is scalene. (ix) Each acute triangle is equilateral. (x) No isosceles triangle is obtuse.



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12. Total number of parts of a triangle is

- (a) 3 (b) 6 (c) 9 (d) 12



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

altitude (b) a median (c) an angle

bisector (d) a bisector



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14. A triangle may not have (a) an altitude (b) can have at most 3 altitudes (c) has three altitudes (d) has only one altitude



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



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





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17. A triangle whose two sides are equal is known as

- A. acute triangle
- B. an isosceles triangle
- C. a scalene triangle
- D. a right triangle

Answer: B



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18. A triangle whose all sides are equal is called

A. an equilateral triangle

B. an acute triangle

C. a right triangle

D. an isosceles triangle

Answer: A



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19. The sum of the lengths of sides of a triangle is known as its (a) area (b) height (c) perimeter (d) region



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20. A triangle having all sides of different length is known as

A. scalene triangle

B. isosceles triangle

C. an equilateral triangle

D. an acute triangle

Answer: A



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21. A triangle whose one angle is more than 90° is called

A. a scalene triangle

B. a right triangle

C. an acute triangle

D. an obtuse triangle

Answer: D



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