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perpendicular line = 1.7. Equation of a line :a.  $y = mx + c$  Slope intercept form where y is m is the slope and c is the y-intercept.b.  $(y - y_1) = m(x - x_1)$  Slope point form where  $(x_1, y_1)$  are the coordinates of the point through which the line passes and m is the slope.c.  $(y - y_1) = m(x - x_1)$  where m -Two point form where  $(x_1, y_1)$  and  $(x_2, y_2)$  are the coordinates of the point through which the line passes. 1. Criteria for similarity 1. AA or AAA criteria 2. SAS criteria 3. SSS criteria2. A perpendicular drawn from the vertex of a right-angled triangle divides the triangle into two triangles similar to each other and also to the original triangle.3. Basic Proportionality Theorem A line drawn parallel to any side of a triangle divides the other two sides proportionally.4. The areas of two similar triangles are proportional to the square on their corresponding sides.5. Median divides a triangle into two triangles of equal area.6. If many triangles have a common vertex and their bases are along the same straight line, the ratio between their areas is equal to the ratio between the lengths of their bases. 7. Scale factor is given by the letter k. 1. A line drawn from the centre of a circle to bisect the chord is perpendicular to the chord.2. A perpendicular line drawn to a chord from the centre of the circle bisects the chord.3. The perpendicular bisector of a chord passes through the centre of the circle.4. One and only one circle can be drawn passing through three non-collinear points.5. Equal chords are equidistant from the centre.6. Chords which are equidistant from the centre are equal in length.7. If the parallel chords are drawn in a circle, then the line through the midpoints of the chords passes through the centre.8. Greater the size of the chord, lesser is its distance from the centre.9. Angle at the centre = 2 X Angle on the circumference10. Angles in the same segment are equal.11. Angle in a semicircle is a right angle.12. The opposite angles of a cyclic quadrilateral are supplementary.13. If the opposite angles of a quadrilateral are supplementary, then the quadrilateral is cyclic.14. Angle in the major segment in acute and in the minor segment is obtuse.15. Exterior angle of a cyclic quadrilateral = Interior opposite angle.16. In equal circles or in the same circle, if two arcs subtend equal angles at the centre, then they are equal.17. In equal circle, if two arcs are equal, then they subtend equal angles at the centre.18. In equal circles, if two chords are equal, they cut off equal arcs.19. In equal circle, if two arcs are equal, the chords of the arcs are also equal.20. The tangent at any point of a circle and the radius through this point are perpendicular to each other.21. If two tangents are drawn to a circle from an exterior point, a. The tangents are equal b. They subtend equal angles at the centre of the circle c. They are equally inclined to the line joining the point and the centre of the circle.22. If two circles touch each other (externally or internally) the line joining the centers of the circle passes through the point of contact.23. Direct common tangent = 24. Transverse common tangent = 25. If two chords of a circle intersect each other internally or externally, then the product of the lengths of their segments is equal.26. Angles in the alternate segment are equal.27. Tangent = Product of the lengths of the segments of the chord.28. Incentre Point of intersection of the angular bisectors.29. Circumcentre Point of intersection of the perpendicular bisectors of the sides.30. Orthocentre Point of intersection of the altitudes . 1. CIRCLE :a.Circumference =  $2\pi r$ .Area =  $\pi r^2$ . CIRCULAR RING :a. Area =  $(R^2 - r^2)\pi$ .3. Distance travelled by a wheel in one revolution = Its circumference.4. No. of Revolutions =  $\frac{\text{CUBOID:a.Volume} = l \times b \times h$ . TSA =  $2(lb + bh + hl)$ . Diagonal =  $\sqrt{6}$ .CUBE:a.Volume =  $abc$ .Diagonal =  $a\sqrt{3}$ .SOLID CYLINDER:a.Volume =  $\pi r^2 h$ . CSA =  $2\pi rh$ . TSA =  $2\pi r(h + r)$ .HOLLOW CYLINDER:a.Volume =  $\pi(R^2 - r^2)h$ . TSA =  $2\pi R(h + R) + 2\pi r(h + r)$  9.RIGHT CIRCULAR CONE:a.Slant height  $l = \sqrt{h^2 + r^2}$ . Volume =  $\frac{1}{3}\pi r^2 l$ . CSA =  $\pi r(l + r)$ . TSA =  $\pi r(l + 2r)$  10.SPHERE:a.Volume =  $\frac{4}{3}\pi r^3$ . Surface area =  $4\pi r^2$ .HEMISPHEREa.Volume =  $\frac{2}{3}\pi r^3$ . Curved Surface area =  $2\pi r^2$ . Total Surface Area =  $3\pi r^2$ .HOLLOW SPHERE:a.Volume =  $\frac{4}{3}\pi(R^3 - r^3)$  1. Arithmetic mean on non tabulated data 2. Arithmetic mean of tabulated data (Direct Method) : All Maths Formulas for Class 10 given here is ready by our Experts teachers at iceboards as per the most recent ICSE Class 10 Maths Syllabus and CISCE rules. 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