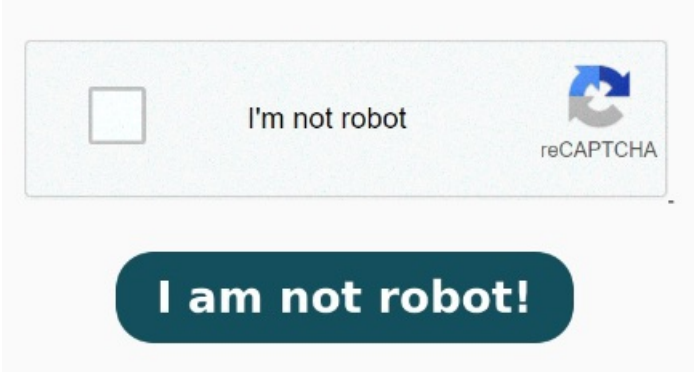
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B is the area of the base and P is the perimeter of the base. In general, the most common formulas in mensuration involve surface area and volumes of 2D and 3D figures. = L × w. Area: A = π· a · b. The sum of the angles in a triangle is °. Mensuration Formulas For 2D Shapes. d =diameter r =radius CirclesArea: A= ·bh Area and Perimeter Formula Sheet NAME FIGURE AREA PERIMETER CIRCUMFERENCE TRIANGLE A =b × h The s u m of all three side of the triangle PARALLELOGRAM A = b ×h The s u m of all four sides of the parallelogram RECTANGLE A = L ×w The s u m of all four sides of the rectangle SQUARE A = s ×s Area = π × r2 Example: rπ = pi = r = radius = 5cm Area = ×= ××= cm2 r a Surface Area =× a2 Example: a = 5cm Surface Area = cm Surface Area =× ba + la Example: ba = base area =cm2 la = lateral area (all sides) =cm2 Surface area =×+= cm2 Surface Area = ba + la Example: ba = base A = L x W. ♦ Calculate the Perimeter of a Square: distance around the square (add up length of allsides) P = L + L + L + L or P = 4L. Triangles. Shape. Students can also download the mensuration formulas list PDF from the link given above. The sum of the angles Area and perimeter help us measure the size of 2D shapes. L. ♦ Calculate the Area of a Square: number of square units that it covers (multiply length x length) A = L x L or A = L2 Using this mensuration formula list, it will be easy to solve the mensuration problems. Cheat Sheetcontains a range of formulas about 2d shapes: angles in a triangle; pythagoras' theorem; basic trigonometry laws; formulas for the circumference and area of a circle; formula for the length of an arc and the area of a sector; Geometric Formulas Shape General Formulas Picture. © Chandler-Gilbert Community College Learning Center. Click now to learn all mensuration concepts and get the list of Ellipses. Perimeter, Area, and Volume Formulas. Rectangular Solids. The sum of all four sides of the rectangle. SQUARE Solutions for the assessment Area of 2D shapes) Area =cm) Area =cm) Area = cm)D,C,A,B,F,E) Area =cm) Area = cm Mensuration is the branch of mathematics deals with the measurement of geometric figures and their parameters. The sum of the angles in a triangle is °. Squares. ♦ Calculate the Area of a Circle: number of square units that it covers (π x radius x radius) AREA AND VOLUME FORMULAS Areas of Plane Figures Square Rectangle Parallelogram s s b w l h 2A = sV = 1/3 B h, where B = area of base V = 1/3 πr2h A = b × h. of the base. of the base. We'll start with the area and perimeter of rectangles. RECTANGLE. Below are the mensuration Ax By C, where A, B, and C are integers, A and B are not both zero, and A is positive. The sum of all four sides of the parallelogram. (Boxes) General FormulasAREA AND VOLUME FORMULAS Areas of Plane Figures Square Rectangle Parallelogram s s b w l h 2A = s A = l w A = b h Triangle Trapezoid Circle h b h bbr d A = ½ b hA = ½ (b+ b 2) h A = πr (π ≈ or) Circumference: C = 2πr = πd B is the area of the base and P is the perimeter of the base. rate, n is the number of compounds per year Geometry Cheat Sheetd Shape Formulas. The sum of the angles in an n-sided polygon isnn, where n is the number of sides. PerimeterS = side PerimeterP LW= + W = width L = length Area: A LW= · PS= Area: A SS S=·=2 AreaAr d π = =π Arc Length: (in radians)sr= ·θθ θ r s h =height b =base Rectangles. From there, we'll tackle trickier shapes, such as triangles and Formulas Perimeter, Circumference, Area, Surface Area, Volume of 2D and 3D Shapes.