GEOMETRY FORMULAS

PERIMETER OF SQUARE

Perimeter of Square: $4a$

Area of Square: a^2

Perimeter of Rectangle: $2(l + w)$

Area of Rectangle: $l \times w$

Area of Triangle: $\frac{1}{2} \times b \times h$

Heron's Formula:
$\sqrt{s(s-a)(s-b)(s-b)(s-c)}$

AREA OF CIRCLE

Area of Circle: πr^2

Arc Length: $\frac{\theta}{360} \times 2\pi r$

Sector Area: $\frac{\theta}{360} \times \pi r^2$

Volume of Cube: a^3

Surface Area of Cube: $6a^2$

Volume of Cuboid: $l \times w \times h$

SURFACE AREA OF SPHERE

Surface Area of Sphere: $4\pi r^2$

Diagonal of Square: $a\sqrt{2}$

Diagonal of Cuboid: $\sqrt{l^2 + w^2 + h^2}$

Angle Sum of Triangle: $180°$

Angle Sum of Quadrilateral: $360°$

Interior Angle (Polygon): $\frac{(n-2)\times 180}{n}$

PERIMETER OF TRIANGLE

Perimeter of Triangle: $a + b + c$

Pythagorean Theorem:
$a^2 + b^2 = c^2$

Area of Parallelogram: $b \times h$

Area of Trapezium: $\frac{1}{2}(a + b)h$

Area of Rhombus: $\frac{1}{2} d_1 d_2$

Circumference of Circle: $2\pi r$

SURFACE AREA OF CUBOID

Surface Area of Cuboid:
$2(lw + lh + wh)$

Volume of Cylinder: $\pi r^2 h$

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Surface Area of Cylinder:
$2\pi r(h + r)$

Volume of Cone: $\frac{1}{3}\pi r^2 h$

Surface Area of Cone: $\pi r(r + l)$

Volume of Sphere: $\frac{4}{3}\pi r^3$

EXTERIOR ANGLE

Exterior Angle: $\frac{360}{n}$