

Geometry Formulas Cheat Sheet

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1. Area Formulas

- Square: $A = a^2$ (where a is the side length)
- Rectangle: $A = l \times w$ (where l and w are the length and width)
- Triangle: $A = 1/2 \times b \times h$ (where b is base, h is height)
- Circle: $A = \pi r^2$ (where r is the radius)
- Trapezoid: $A = 1/2 (a + b) h$ (where a and b are the lengths of the parallel sides, h is the height)

2. Perimeter Formulas

- Square: $P = 4a$
- Rectangle: $P = 2(l + w)$
- Triangle: $P = a + b + c$ (where a , b , and c are the sides of the triangle)
- Circle: $P = 2\pi r$

3. Volume Formulas

- Cube: $V = a^3$
- Rectangular Prism: $V = l \times w \times h$
- Sphere: $V = 4/3 \pi r^3$
- Cylinder: $V = \pi r^2 h$
- Cone: $V = 1/3 \pi r^2 h$

4. Surface Area Formulas

- Cube: $SA = 6a^2$
- Rectangular Prism: $SA = 2(lw + lh + wh)$
- Sphere: $SA = 4 \pi r^2$
- Cylinder: $SA = 2 \pi r (r + h)$
- Cone: $SA = \pi r (r + \sqrt{r^2 + h^2})$