

Geometry Formulas Cheat Sheet

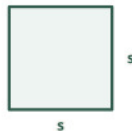
A printable geometry formulas cheat sheet for area, circumference, surface area, and volume with labeled two- and three-dimensional figures.

Rectangle



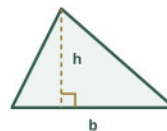
$$A = lw$$

Square



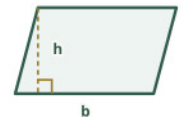
$$A = s^2$$

Triangle



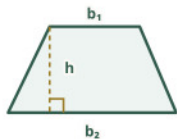
$$A = \frac{1}{2}bh$$

Parallelogram



$$A = bh$$

Trapezoid



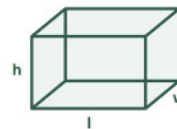
$$A = \frac{1}{2}(b_1 + b_2)h$$

Circle



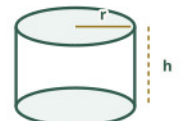
$$A = \pi r^2 \cdot C = 2\pi r$$

Rectangular prism



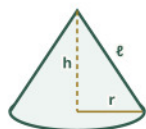
$$V = lwh \cdot SA = 2(lw + lh + wh)$$

Cylinder



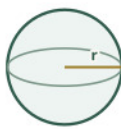
$$V = \pi r^2 h$$

Cone



$$V = \frac{1}{3}\pi r^2 h$$

Sphere



$$V = \frac{4}{3}\pi r^3 \cdot SA = 4\pi r^2$$

Geometry Formulas Cheat Sheet

01 Plane figures

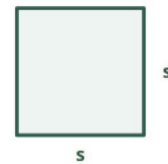
Area measures the region inside a two-dimensional boundary.

Rectangle



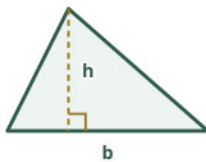
$$A=lw; P=2l+2w$$

Square



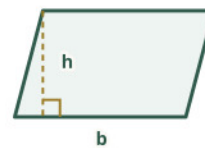
$$A=s^2; P=4s$$

Triangle



$$A=1/2 bh$$

Parallelogram



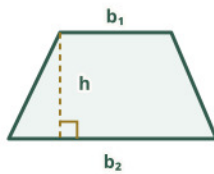
$$A=bh$$

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01 Plane figures (continued)

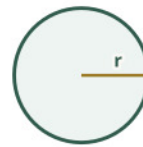
Area measures the region inside a two-dimensional boundary.

Trapezoid



$$A = \frac{1}{2}(b_1 + b_2)h$$

Circle



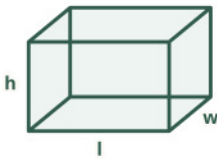
$$A = \pi r^2; C = 2\pi r$$

Geometry Formulas Cheat Sheet

02 Solid figures

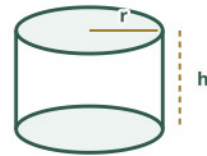
Surface area covers every face; volume fills the solid.

Rectangular prism



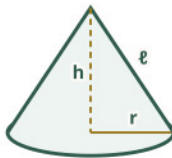
$$V = lwh; SA = 2lw + 2lh + 2wh$$

Cylinder



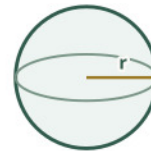
$$V = \pi r^2 h; SA = 2\pi r^2 + 2\pi rh$$

Cone



$$V = \frac{1}{3} \pi r^2 h; SA = \pi r^2 + \pi r l$$

Sphere



$$V = \frac{4}{3} \pi r^3; SA = 4\pi r^2$$

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HOW TO REMEMBER IT

Name the measurement before choosing a formula

1

Perimeter and circumference use linear units.

2

Area and surface area use square units.

3

Volume uses cubic units.

4

For prisms and cylinders, volume is base area times height.