

# KENTUCKY MATHEMATICS REFERENCE SHEET

## Grades 7 and 8

---

### FORMULAS FOR PLANE FIGURES

Parallelogram:  $A = bh$

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

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

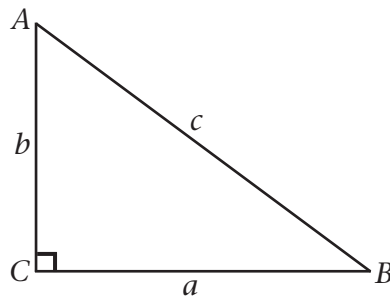
Circle:  $C = 2\pi r$

$$A = \pi r^2$$

Right Triangle:

The Pythagorean Formula

$$c^2 = a^2 + b^2$$



### FORMULAS FOR SOLID FIGURES

Right Prism:  $V = Bh$  ( $B$  is the area of the base.)

Right Cylinder:  $V = \pi r^2 h$

Regular Pyramid:  $V = \frac{1}{3}Bh$

Cube:  $V = e^3$

$$SA = 6e^2$$

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

Sphere:  $V = \frac{4}{3}\pi r^3$