

## Formulas for Area, Perimeter, and Volume

### ATTENTION Students!

- You are expected to know and apply these formulas throughout the year.
- These formulas are ONLY for rectangles, triangles, and right rectangular prisms. Yet, they will be applied to various regular and irregular shapes that will need to be decomposed into smaller shapes while solving problems.

	Rectangle	Triangle	NOTES
Perimeter	$P = s1 + s2 + s3 + s4$ (add all the sides)	$P = s1 + s2 + s3$ (add all the sides)	
Area	$A = l \times w$	$A = \frac{1}{2}bh$ or $A = \frac{bh}{2}$	

	Right Rectangular Prism	NOTES
Volume	$V = l \times w \times h$	

## Conversions

**NOTE:** Students will need to be familiar with the following conversions and use them in given situations throughout the year.

$$1 \text{ mile} = 1,760 \text{ yards}$$

$$1 \text{ mile} = 5,280 \text{ feet}$$

$$1 \text{ pound} = 16 \text{ ounces}$$

$$1 \text{ cup} = 8 \text{ fluid ounces}$$

$$1 \text{ pint} = 2 \text{ cups}$$

$$1 \text{ quart} = 2 \text{ pints}$$

$$1 \text{ gallon} = 4 \text{ quarts}$$

$$1 \text{ kilometer} = 1,000 \text{ meters}$$

$$1 \text{ kilogram} = 1,000 \text{ grams}$$

$$1 \text{ liter} = 1,000 \text{ milliliters}$$

$$1 \text{ meter} = 100 \text{ centimeters}$$

$$1 \text{ centimeter} = 10 \text{ millimeters}$$