

## Grade 8 Mathematics Reference Sheet

### CONVERSIONS

1 inch = 2.54 centimeters

1 meter = 39.37 inches

1 mile = 5,280 feet

1 mile = 1,760 yards

1 mile = 1.609 kilometers

1 kilometer = 0.62 mile

1 pound = 16 ounces

1 pound = 0.454 kilogram

1 kilogram = 2.2 pounds

1 ton = 2,000 pounds

1 cup = 8 fluid ounces

1 pint = 2 cups

1 quart = 2 pints

1 gallon = 4 quarts

1 gallon = 3.785 liters

1 liter = 0.264 gallon

1 liter = 1,000 cubic centimeters

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### FORMULAS

**Triangle**

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

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**Parallelogram**

$$A = bh$$

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**Circle**

$$A = \pi r^2$$

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**Circle**

$$C = \pi d \text{ or } C = 2\pi r$$

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**General Prisms**

$$V = Bh$$

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**Cylinder**

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

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**Sphere**

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

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**Cone**

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

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**Pythagorean Theorem**

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

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