**Grade 9 Formulas**

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| **TOPIC** | **FORMULA** |
| Perimeter of Squares, Rectangles, or Triangles | Add the length of all sides |
| Area of Squares | L X W |
| Area of Rectangles | L X W |
| Area of Triangles | b X h ÷ 2 |
| Area of Circles | ∏ X r2 |
| Circumference of Circles | ∏ X d |
| Surface Area of Prisms  (Cube, Triangular, Rectangular) | Add the area of all faces |
| Surface Area of Cylinders | 2 X ∏ X r2 + ∏ X D X H |
| Volume of Cubes | L X W X H |
| Volume of Rectangular Prisms | L X W X H |
| Volume of Triangular Prisms | b X h ÷2 X h  Triangle face |
| Volume of Cylinders | ∏ X r2 X H |
| The Pythagorean Theory | c2 = a2 + b2 |