

Top 20 Must-Know Maths Formulas for Grade 8 (CBSE Board)

Mastering the essential formulas is key to scoring well in Maths!

This guide covers the **top 20 must-know formulas** every Grade 8 CBSE student should remember — quick, easy, and perfect for last-minute revision.

Algebra

1. $(a + b)^2 = a^2 + 2ab + b^2$
 2. $(a - b)^2 = a^2 - 2ab + b^2$
 3. $a^2 - b^2 = (a + b)(a - b)$
 4. $(x + a)(x + b) = x^2 + (a + b)x + ab$
-

Mensuration

5. **Area of a Trapezium** = $\frac{1}{2} \times (\text{Sum of Parallel Sides}) \times \text{Height}$
 6. **Surface Area of a Cube** = $6a^2$
 7. **Surface Area of a Cuboid** = $2(lb + bh + hl)$
 8. **Volume of a Cube** = a^3
 9. **Volume of a Cuboid** = $l \times b \times h$
 10. **Surface Area of a Sphere** = $4\pi r^2$
-

Geometry

11. **Sum of Interior Angles of a Polygon** = $(n - 2) \times 180^\circ$
 12. **Pythagoras Theorem** = $\text{Hypotenuse}^2 = \text{Base}^2 + \text{Height}^2$
 13. **Area of a Circle** = πr^2
 14. **Circumference of a Circle** = $2\pi r$
-

Comparing Quantities

15. **Percentage** = $(\text{Part/Whole}) \times 100$
 16. **Simple Interest (SI)** = $(P \times R \times T) / 100$
 17. **Compound Interest (CI)** = $P (1 + R/100)^t - P$
-

Linear Equations

18. **General Form:** $ax + b = 0$

19. **Solution of Linear Equation: $x = -b/a$**

Data Handling

20. **Mean = Sum of Observations / Number of Observations**

Conclusion:

Keep this cheat sheet handy! Practicing these formulas daily can help you build speed, accuracy, and confidence in solving any Grade 8 Maths problem.

● **Pro Tip:** Bookmark this guide or print it out to revise before your exams!