

CMAT Important Formula Sheet

Color Theme Matching the CMAT Exam Pattern PDF

Percentages & Ratio

- Percentage = $(\text{Part/Whole}) \times 100$
- Percentage Change = $((\text{New}-\text{Old})/\text{Old}) \times 100$
- Successive Change = $a + b + ab/100$
- Ratio $a:b = a/b$
- If $a:b = c:d$ then $ad = bc$

Profit, Loss & Interest

- Profit = $SP - CP$
- Profit% = $\text{Profit}/CP \times 100$
- Loss% = $\text{Loss}/CP \times 100$
- $SI = PRT/100$
- $CI = P(1 + R/100)^n - P$

Time, Work & Distance

- Work = Efficiency \times Time
- One-day work = $1/x$
- Speed = Distance/Time
- Distance = Speed \times Time
- Relative Speed = Sum/Difference of Speeds

Algebra & Number System

- $(a+b)^2 = a^2 + b^2 + 2ab$
- $(a-b)^2 = a^2 + b^2 - 2ab$
- $a^2 - b^2 = (a+b)(a-b)$
- $LCM \times HCF = \text{Product of Two Numbers}$
- Number of Factors = $(a+1)(b+1)$

Geometry, Mensuration & Modern Math

- Area of Circle = πr^2
- Circumference = $2\pi r$
- Area of Triangle = $1/2 \times \text{base} \times \text{height}$
- Cylinder Volume = $\pi r^2 h$
- Sphere Volume = $4/3 \pi r^3$
- $nPr = n!/(n-r)!$
- $nCr = n!/[(n-r)!r!]$
- Probability = Favourable Outcomes/Total Outcomes