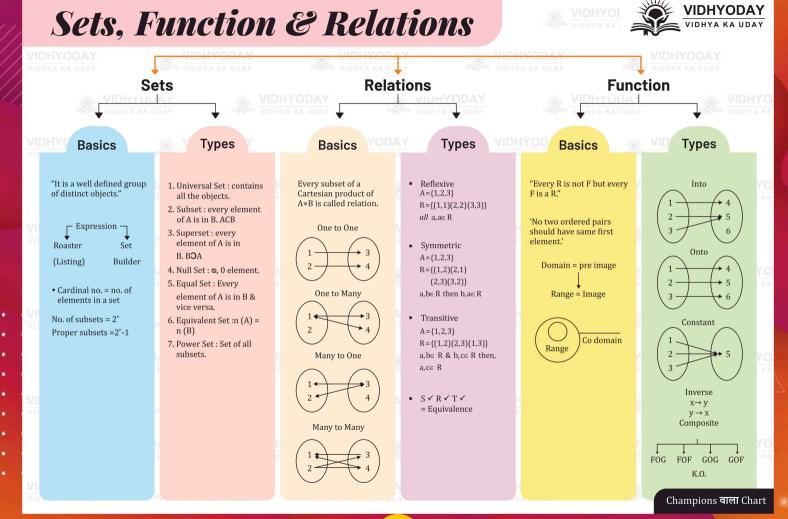
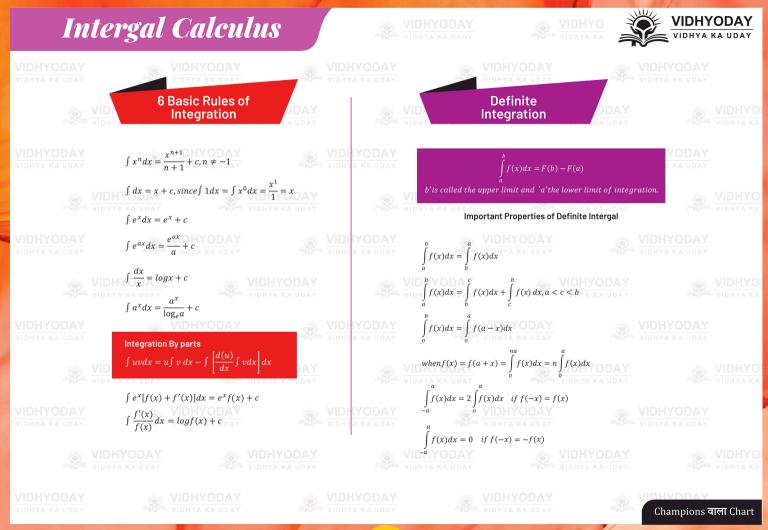


Have you heard About Our Holi Event "RANG De"

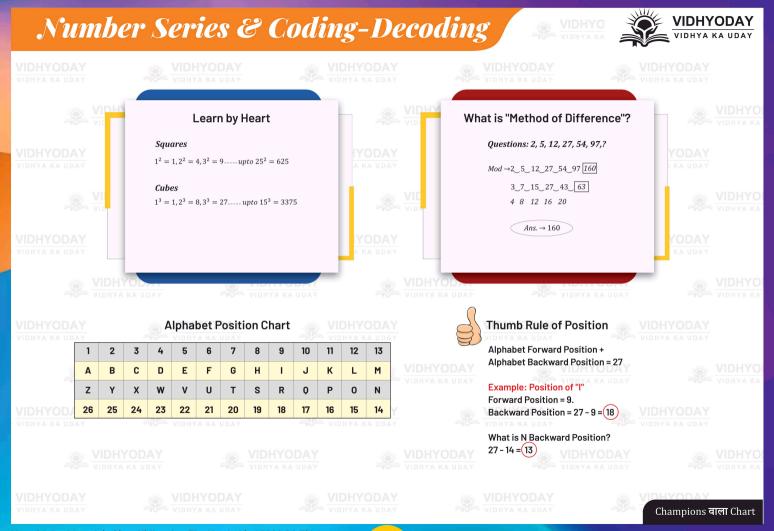


Differential Calculus VIDHYODAY Six Basic Rules of For Two Functions Differentiation $\frac{d}{dx}(e^x) = e^x$ $\frac{d}{dx}(x^n) = nx^{n-1}$ h(x)=f(x) + q(x) $\frac{d}{dx}{h(x)} = \frac{d}{dx}[f(x)] \pm \frac{d}{dx}[g(x)]$ (Sum/Difference of function) $\frac{d}{dx}(a^{x}) = a^{x}\log_{e}a \qquad \text{VIDHYO} \quad \frac{d}{dx}(constant) = 0$ $\frac{d}{dx}{h(x)} = f(x)\frac{d}{dx}{g(x)} + g(x)\frac{d}{dx}{f(x)}$ $h(x) = f(x) \cdot g(x)$ (Product of functions) $\frac{d}{dx}(Logx) = \frac{1}{x}$ $\frac{d}{dx}(e^{ax}) = ae^{ax}$ $\frac{d}{dx}{h(x)} = \frac{g(x)\frac{d}{dx}{f(x)} - f(x)\frac{d}{dx}{g(x)}}{f(x)^2}$ $h(x) = \frac{f(x)}{g(x)}$ Note: $\frac{d}{dx} \{ cf(x) \} = cf'(x) \ c \ being \ constant.$ (Quotient of function) **Application of Differentiation** Average cost (AC or \overline{C}) = $\frac{Total Cost}{Out Put} = \frac{C(X)}{X}$ Marginal Revenue: It is the rate of change in revenue per unit change in output. If R is the revenue and x is the output, then $_{MR} = \frac{dR}{dR}$ Average variable cost (AVC) = $\frac{Variable Cost}{Out Put} = \frac{V(x)}{x}$ **Profit function:** Profit P(x), the difference of between total revenue R(x)Average Fixed Cost (AFC) = $\frac{Fixed Cost}{Out Put} = \frac{F(x)}{x}$ and total Cost C (x). P(X) = R(x) - C(x)*Marginal Cost:* If C(x) the total cost producing x units then Marginal Profit: It is rate of change in profit per unit change in dP the increase in cost in producing one more unit is called output i.e. $\frac{dP}{dx}$ marginal cost at an output level of x units and is given as **Slope of Curve:** If y is any function then $\frac{dy}{dy}$ represent the slope of **Revenue Function:** Revenue, R(x), gives the total money tangent to the curve. obtained (Total turnover) by selling x units of a product. If x units are sold at 'P per unit, then R(x) = PXChampions **वाला** Chart

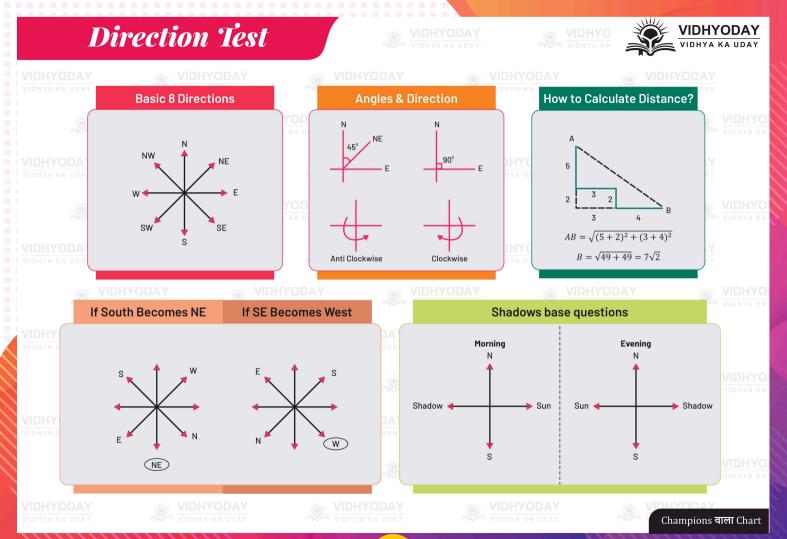
Participate in our Annual Sport Tournament "CHAK De"

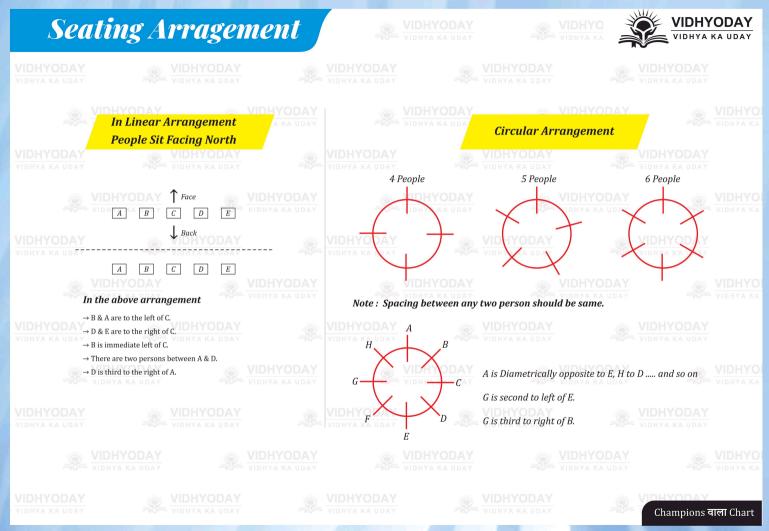


Proud Vidhyoday Student Lichi Sharma Scored 99% in CBSE Board Exams

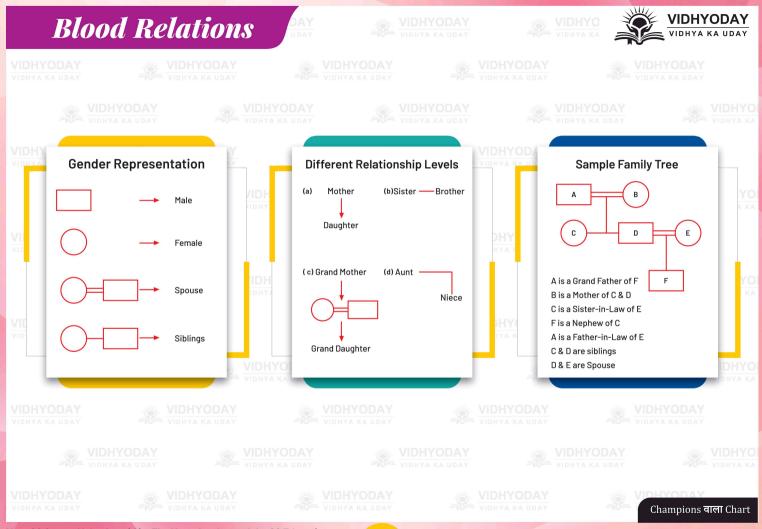


Meet CA Anubhav Jain Sir at Vidhyoday, The Man behind 5000 CA Till date

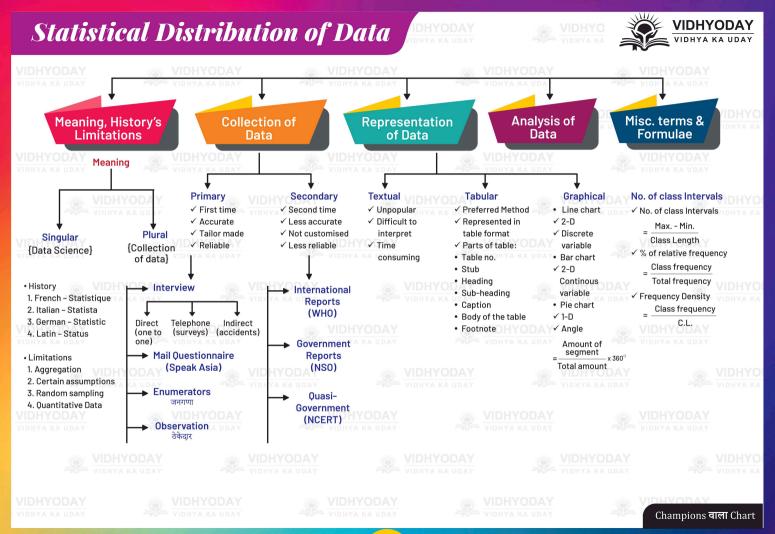


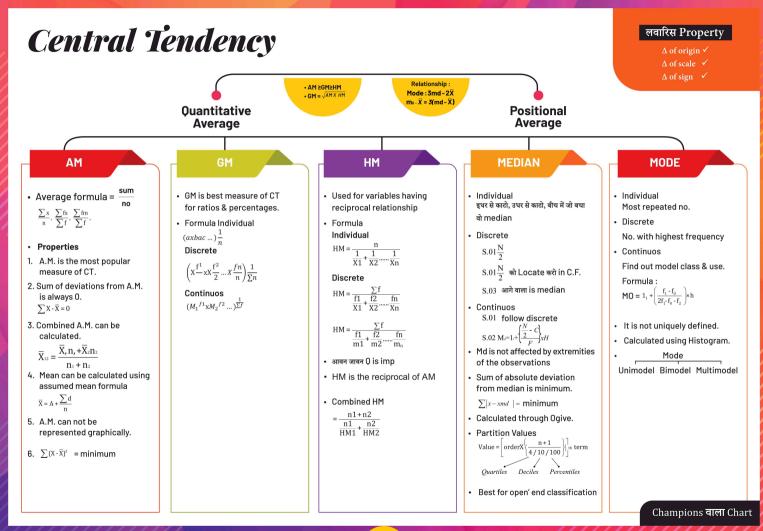


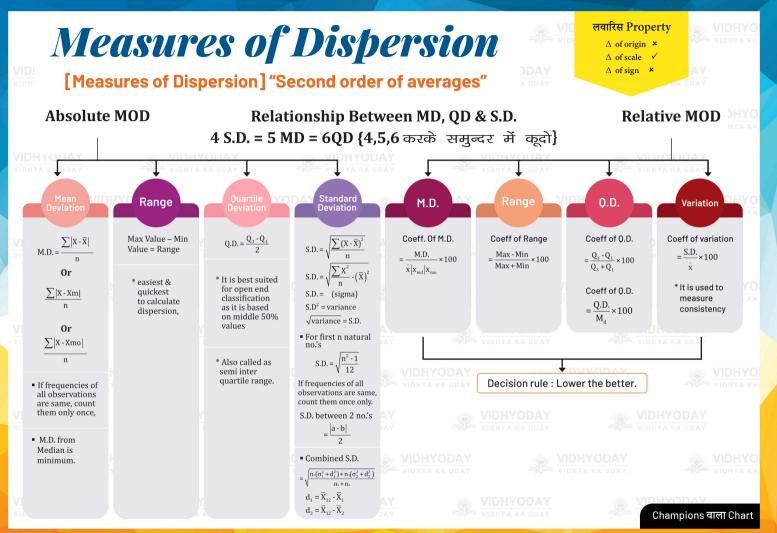
You will be shocked to know, Every year Our Student takes admission in SRCC

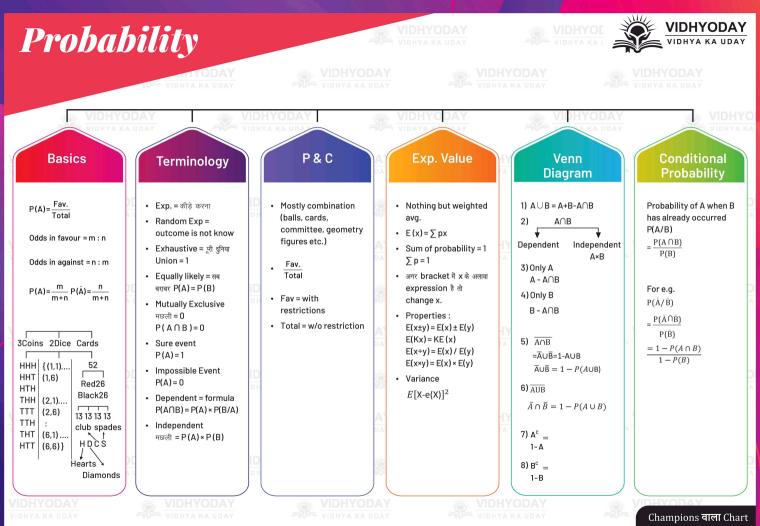


Meet CS Gaurav Maheshwari Sir , The Man who changed the CS Education

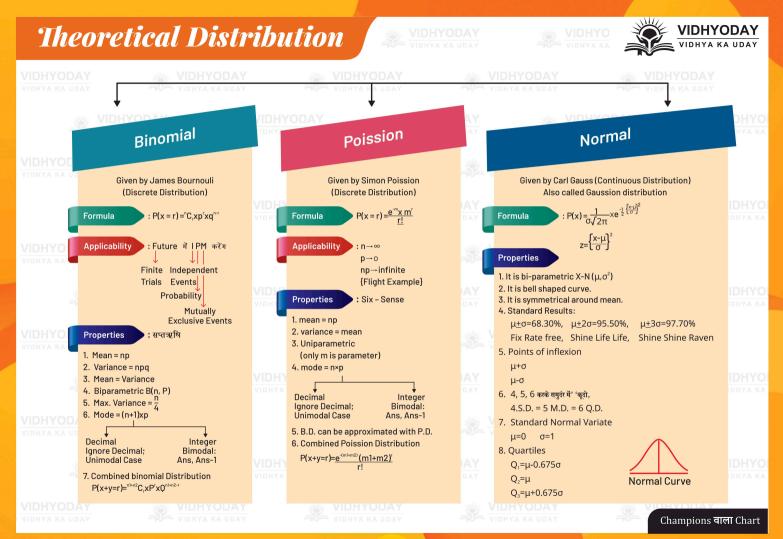


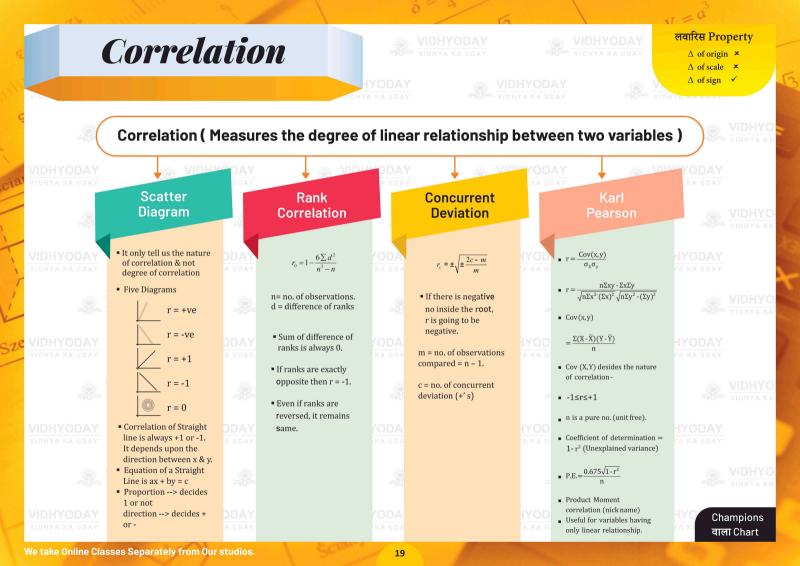


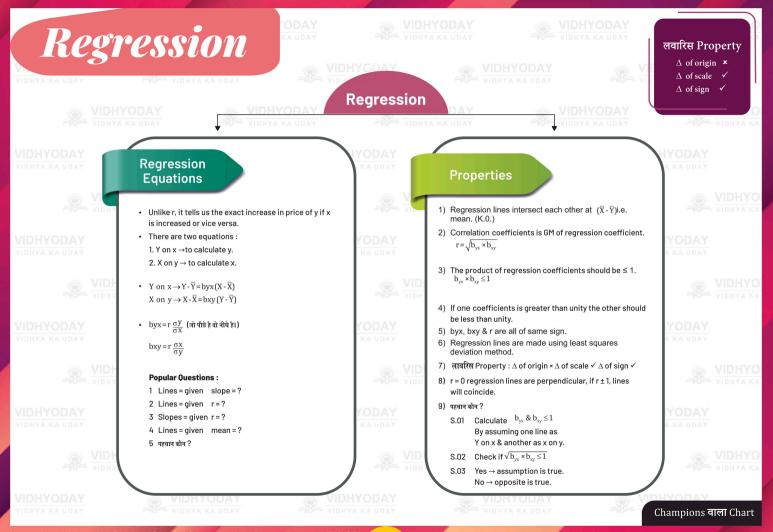




Currently, Students from 29 States are studying at Vidhyoday







We are Awarded as the Best Institute of Commerce by the governor of MP & CG.

			CY value, when B.Y value is assumed to be 100. E.g. Sensex (1978-79) Index no. is a pure no.						
		III AV				YODAY A KA UDAY			
VIDHYO	Simple Method		Weighted Method			Special Points			<mark>; </mark>
VIDHYA KA	Aggregative $P_{01} = \frac{\sum P_1}{\sum P_0} \times 100$	Relative $I = \frac{\sum I_R}{n}$	Y	$\begin{bmatrix} \sum P_{1} W \\ \sum P_{0} W \end{bmatrix}$ Laspeyer = $\frac{\sum P_{1} q_{0}}{\sum P_{0} q_{0}}$	рну,	↓ Test	Inflation Deflation	Base Shifting & CBI	Salary Q.'s
VIDHYC VIDHYA KA	$P_{01} = \frac{1}{\sum P_0} x_{100}$	n I_R= $\frac{P_1}{P_0} \times 100$.Y .y	(Base year Q.) Passche = $\frac{\sum P_1 q_1}{\sum P_0 q_1}$		 Unit test unit free satisfied by all. Time - Reversal Test P₀₁×P₁₀=1 	(Index No – 100) = Inflation % Deflated value mean B.Y. dh	CBI $= \frac{LR \times PYCBI}{100}$ $LR = \frac{CYPrice}{Prev.Price} \times 100$	<u>C.Y.Salary</u> C.Y.Index B.Y.Index = B.Y.की Salary
VIDHYC			Y	(Current year Q.) *** (Ideal) ↓ Fishers = √La×Pa	DH ary	Kelly, MEW, Fishers Simple aggregative Satisfy TRT 3) Circular Test 0 _ 2	value = <u>C.Y.Value</u> ×100	Prev.Price	B.Y.Salary B.Y.Index C.Y.Index = C.Y. 術 Salary
VIDHYA KA			AY .	Dorbish & Bowley = $\frac{\text{La} \times \text{Pa}}{2}$ Marshall Edgeworth $\Sigma P_1 \left(\frac{q_0 + q_1}{2}\right)$	DH atty	$ \begin{array}{c} $			• Today' salary – should have been = Real gain.
VIDHYÖ VIDHYA KA			Y V	$P01 = \frac{\sum P_{1}\left(\frac{2}{\Sigma}\right)}{\sum P_{0}\left(\frac{q_{0} + q_{1}}{2}\right)}$ Walsh $\left(\sqrt{P_{01}}\right) = \frac{\sum P_{1}\sqrt{q_{0} q_{1}}}{\sum P_{0}\sqrt{q_{0} q_{1}}}$		Fisher × Kelley ✓ aggregative ✓ 4) Factor Reversal			• Should have been –Today's salary = D.A.
				Weight = $\sqrt{q_0 q_1}$ (kelly) = $\frac{\sum P_1 q}{\sum P_0 q}$	DH DHY)	$P_{01} \times q_{01} = v_{01}$ Fisher's \checkmark $v_{01} = \frac{\sum P_1 q_1}{\sum P_0 q_0} \times 100$			

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We have dedicated guardian support system. 🦯

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