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Formula Used: Slope at free end =  $PL^3 / 6EI$ .

Deflection at any section =  $Px^2 ( x^3 + 6L^2 - 4Lx ) / 24EI$ . Where, P is the externally applied load, E is the Elastic Modulus, I is the Area moment of Inertia, L is the Length of the beam and. x is the position of the load.

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CIVIL ENGINEERING FORMULAS . ABOUT THE AUTHOR Tyler G. Hicks, P.E., is a consulting engineer and a successful engineering book author. He has worked in plant design and operation in a variety of industries, taught at several engineering schools, and

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lectured both in the United States and abroad. Mr.

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cement bags is required for different volume of concrete. sand quantity in m<sup>3</sup>. aggregate quantity in m<sup>3</sup>. you easily find quantity of concrete using our calculator.

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Volume of plastering =  $100 \times 0.02 = 2 \text{ m}^3$ . Adding 20% to fill up the joints =  $2 + 2 \times (20/100) = 2.4 \text{ m}^3$ . Increasing 20% for dry volume =  $2.4 + 2.4 \times (20/100)$  (30% can also be used) =  $2.88 \text{ m}^3$ . approx  $3 \text{ m}^3$ . For 1:6 cement mortar, Volume of cement =  $3 / (1+6) = 0.43 \text{ m}^3$ . Volume of sand =  $3 - 0.43 = 2.57 \text{ m}^3$ .

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