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Formula, Cement = (Volume of dry concrete/a+b+c) × a. = (1.54/a+b+c) × a = [(1.54/1+2+4)] × 1 = 0.22 cum. Now density of cement = 1440 kg/cum. ?Volume of cement = 0.22 × 1440 =316.8 kg. As we know, 1 bag of cement contains 50 kg of cement . ?Cement bags required = 316.8/50 = 6.33 bags. Calculation For Sand:

## How To Calculate Quantities Of Materials For Concrete

Step 2 :- Calculation for quantity of mortar. Since we need 500 no of bricks. volume occupied by bricks = No of bricks x volume of one brick. Volume of bricks = 500 x 0.001539 = 0.7695 m<sup>3</sup>. Volume of mortar = Volume of BRICK WORK - Volume of BRICKS. therefore, volume of Mortar = 1.0 - 0.7695 = 0.2305 m<sup>3</sup>. Step 3:- Calculation for Quantity of CEMENT

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## Civil Engineering Material Quantity Formulas

Basics for Construction Estimation & Costing

### (PDF) Estimating Costing in Civil Engineering Basic ...

Step 1: Calculate out the volume of mortar of one brick. (ft<sup>3</sup> or m<sup>3</sup>) - Volume per brick = (t)(w)(L+H+t)  
3- Volume per brick = (.5)(3.75)(8.0+2.25+.5) = .01166 ft<sup>3</sup> Step 2: Multiply the mortar required/ brick by the total number of bricks. 3- Volume of mortar = (.01166 ft<sup>3</sup> /brick) x (982 bricks) = 11.4 ft<sup>3</sup>.

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### Civil Engineering Material Quantity Formulas

Cost Estimating 30 Dr. Emad Elbeltagi. volume of the excavated material (s ee Figure 2.4). Distance between centerlines is 5 m. Fig. 2.4: Footing foundation plan and cross section Excavation for footings =  $2 \times 1.2 \times 2.0 \times 1.2 = 5.76$  m<sup>3</sup>. Excavation for smell =  $(5 - 2 \times 1) \times 0.6 \times 0.25 = 0.45$  m<sup>3</sup>.

### CHAPTER 2 QUANTITY TAKE-OFF

Calculate Quantities of Materials for Concrete -Cement, Sand, Aggregates. Quantities of materials for concrete such as cement, sand and aggregates for production of required quantity of concrete of given mix proportions such as 1:2:4 (M15), 1:1.5: 3 (M20), 1:1:2 (M25) can be calculated by absolute volume

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method.

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## Excel Sheets Civil Engineering

Width of area to be covered x height of area to be covered, divided by 7 = number of bricks needed.  
Elevation Conversion: Elevation measured in 10ths per foot. 1 of elevation = one foot or 12" equals one foot. Normal measurement 12 inches per foot.

## Construction Estimating Math Formulas - quantity-takeoff

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