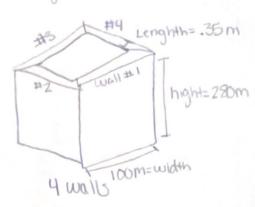


## Drolokim Stotment

You are employed by amoving WHY moving van mornings hall building 25 ft, to relocate it money pounds the building weight based on the dementions of the building

company and are tasked which is surcmars oldes+ you will need to find now

Diagram!



100m=width length=,35 m ceiling

iength= 1.4 m ground

Theory-

Volume of core= Lxwxh Density of concrete = gazIbs per cubic mover Weight = volume > desity

ASSOMPTIONS

. There are 4 walls I ceiling a I ground

· all 4 wall weigh the same

. The building is hollow inside with nothing in it

. The bilding is made of only concrete

calculations

35mx 280m × 100m = 9800 m3 for 1 wall 98000 m3 x 4 was = 39,200 for 4 walls 100mx 100mx, 35m = 3500 m3 for ceiling 100mx 100mx1.4m = 14000m3 for grounds 30200 m3 + 3500 m3 + 14000 m3 = 56,700 m3 in total 56,700 m3 x49256S= 27,896,400 Ibs the building is estimated to weigh n 27,896,400 Bounds Verification.

Low: density

Volume

470 I bo per m3 x 54,700 m3 = 25,700,000 I bs

high: density volume 500 Ibs perm3 x5 9,000 m3 = Z9,500,000 Ibs This is a rough esimate on the volume of the found through using a formula so it is more simple then how I found the actual estimated weight.

conclusion:

By calculating the volume of 4 walls a ceiling and the ground in cubic meters I could then find the weight of the concete building. I did this by mutiplying Density x volume and we know the blensity is you I bs per cobic meter. After all Calculation & I found the wilding is estimated to Weign 27,896,400 pounds.