

For Apartment A:

Length of the apartment=40ft

width of the apartment=46.33ft

Length of the balcony=6ft

width of the balcony=4.41ft

Total area of a balcony=6*4.41 sf 26.46sf

The area of the apartment={ $(40*46.33)+(26.46*3)$ }sf

=>1932.58

For Apartment B:

Total area of a balcony=6*4.41 sf 26.46sf

The area of the apartment=[$\{(45*21.66)+(17.16*10)\}+(26.46*2)$]sf

=>1198.92

For Apartment C:

Length of the apartment=32.33ft

width of the apartment=28.66ft

The area of the apartment={ $(32.33*28.66)+(26.46)$ }sf

=>953.04

For Lift:

The area of the lift = 6×6 sf

=>36sf

For lobby:

The area of the lobby = $\{(16 \times 12) + (9 \times 6)\}$ sf

=>245sf

For Staircase:

Length of the staircase = 0.83ft

Width of the staircase = 10.83ft

Number of staircase = 24

The area of the staircase in total = (15.83×10.83) sf

=>171.43sf

So the total area of floor plan = Area of Apartment A + Area of Apartment B + Area of Apartment C + Area of lift + Area of Lobby + Area of Staircase

= $(1932.58 + 1198.92 + 953.04 + 36 + 245 + 171.43)$ sf =>4523.97sf

