MECH 105: Homework 14

An engineer involved in construction requires 4800, 5800, and 5700 m^3 of sand, fine gravel, and coarse gravel respectively, for a building project. There are three pits from which these materials can be obtained. The composition of these pits is:

	Sand %	Fine Gravel %	Coarse Gravel %
Pit1	55	30	15
Pit2	25	45	30
Pit3	25	20	55

How many cubic meters must be hauled from each pit in order to meet the engineers demands?