

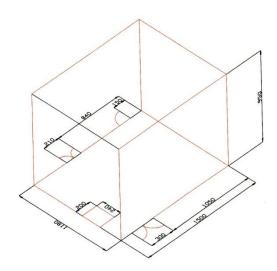
The airline company "KPJ Airlines" decides to expand its fleet. For this reason, the company opts for renting some aircrafts for a period of 2-3 years. The airplane rental company demands that the seats are returned in "perfect condition". The top management of our company has decided to remove the seats from the rented airplanes. In order to obtain a better rental price, when the contract with the rental company ends, you will have to replace the original seats and return the planes in perfect condition.

For this reason, the company has to store the seats during the rental period. The management of the company calls you, the warehouse Manager, and instructs you to store all the seats as economically as possible.

Top management gives you the following tables with the number of rented planes and the number and type of seats that each of them has.

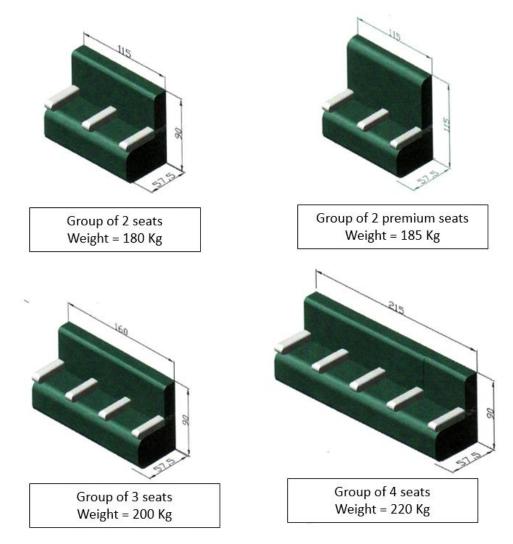
	Number of					of 2
Types of plane	planes per	seats per	3 seats per	4 seats per	premium	seats
	type	type	type	type	per type	
737/400	5	1	56	-		
737/300	3	2	48	-		
757/200	5	3	74	-		
767/(2-4-2)	2	74	-	37		
767 N.Z	2	54	25		12	

The management also informs you that you can have two warehouses of the following dimensions.





The dimensions of the seats are as follows:



With a view to storing the aforementioned material, two possibilities can be studied:

- Outsourcing the service.
- Conditioning the existing buildings.

If we outsource the service, the best price that can be obtained is $1.65 \notin / \text{ (m}^3 \cdot \text{month)}$.

If we condition the existing buildings, we have to equip them with the necessary material and equipment.

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