

## Task

Create a quick mock up with the input variable using node.js to create an api

A	G	H	I	J	K	L	M	N
		Time		Distance Price		Extra Charge		
Van Type	Standard unloading/Loading	Driver Time charge per hour	Helper Time charge per hour	Per Mile Fare	congestion charge	Price per Number of Floors	Availability of Lift	
Small Van	60 mins	50	20	1.1	15	15	If yes; Therefore no additional	If No: User price per
Medium	60 mins	60	20	1.1	15	15		
Large	120 mins	70	20	1.1	15	15		
Giant	180 mins	90	20	1.1	15	15		

Mileage: **integer**

Congestion charge: **yes or no**

Drive Time: **integer**

No of Floor : **integer**

Congestion Charge: **yes or no**

Late Charge : **yes or no**

Carbon offset: **yes or no**

**Van type:**

Small van size

Medium van size

Large van size

Luton van size

## Introduction

Floor charge = 5 per floor

Congestion Charge = 15

Late Charge = hourly rate/4

Mileage charge = Distance travel in miles \* Per Mile Fare

Carbon offset= 5

**Driver time is dependent on the size of the van :**

Standard unloading/Loading for Small van size by be = > 60 mins

Standard unloading/Loading for Medium van size by be = > 60 mins

Standard unloading/Loading for Large van size by be = > 150 mins

Standard unloading/Loading for Luton van size by be = > 180 mins

**if driver time is less than 1 hour**

standard unloading/Loading time = 60mins + (60mins - Drive time )

Total Time= standard unloading/Loading time(van size) + Drive time

**If driver time is more than 1 hour**

Total Time= standard unloading/Loading time(van size) + Drive time ( round up to the nearest 30 mins)

the total time round it up to the nearest nearest 0.5 minutes and nearest hour

(<https://stackoverflow.com/questions/6137986/javascript-roundoff-number-to-nearest-0-5>)

**Driver charge= total time \* hourly rate**

**Helpercharge = total time \* hourly rate**

**Price = Driver charge + Helper charge+ Floor charge + Congestion charge + Late charge(after 6pm) + carbon offset+ Mileage charge**