



Nicole's rental company has only cars and vans available to rent. The poster below shows the rental costs per day for the vehicles at her company.

Rental Costs per Day	
Car: \$40	
Van: \$60	

- a. One day last week, the total rental income for Nicole's company was \$460 for cars and vans together. Her company rented 7 cars that day. How many **vans** did her company rent that day? Show or explain how you got your answer.

For parts (b), (c), and (d), define c and v as follows:

- c = the number of cars the company owns
 - v = the number of vans the company owns
- b. The company owns a total of 36 vehicles. Write an equation in terms of c and v that represents this fact.
- c. On a day when Nicole's company rents all its cars and vans, the total rental income is \$1700. Write an equation in terms of c and v that represents this fact.
- d. Use your equations from parts (b) and (c) to determine how many cars the company owns **and** how many vans the company owns. Show your work.