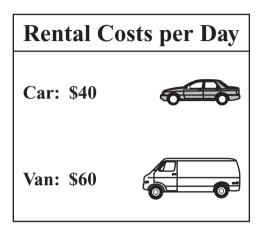
31

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.



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.