

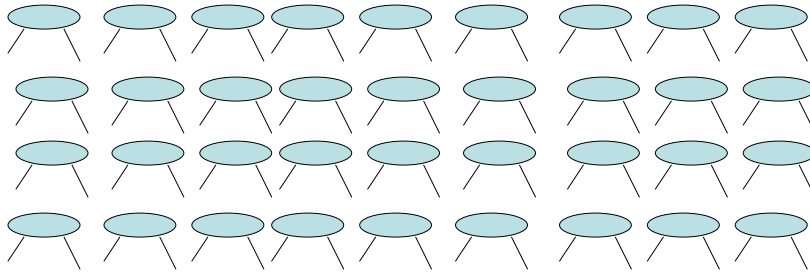
Rollin' Along Problem A

Solution #1

Rollin' Along Solution

Each vehicle has at least two wheels.

Put two wheels on 36 vehicles, count the number of wheels and add two per vehicle until there is a total of 112 wheels.



There are 72 wheels. There are 40 wheels to place, two at a time, to represent cars. There would be 20 cars and 16 motorcycles.

Solution #2

Let m = number of motorcycles

Let c = number of cars

Write and solve a system of equations:

$$m + c = 36$$

$$2m + 4c = 112$$

Using the elimination method:

$$2m + 2c = 72$$

$$2m + 4c = 112$$

$$2c = 40$$

$$c = 20 \text{ cars}$$

$$m = 16 \text{ motorcycles}$$