All 20 spaces in my favorite parking lot are filled by vehicles. Some are occupied by two-wheeled motorcycles, and others by cars. Each space has only one vehicle occupying it. To calm myself, I counted the wheels in the parking lot and there were 66. How many cars and how many motorcycles have invaded my lot?

Show all work and explain how you arrived at your final solution.

$$m = 20 - c$$
 $20 - 13$

C=13	>
N1=7	3

C	C	C	<i>C</i>	\sim
C	C .	C	m	m
<i>C</i>	C	С	m	m
C	C	C	m	m

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M= 7

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C 10 66=2m+4c 33-2c=111
Caro = 13 66=2m+4c 33-2c=11
Matorrudas 7 (66 -4m Dm 20=32-C.
$\frac{1}{20-13} = 7$ $\frac{1}{20} = \frac{3}{3} = \frac{3}{10} = \frac{3}{10}$
There is 20 vehicles and 66 wheels
So it you multiply 13 by 4 equals 52
and when you multiply 7 by 2 equals 14. I solved it by taking the number of wheels
I solved it by taking the number of wheels
and the of wheels in cars and motorcycles,
and made this equation 66=2m+4c than I
solved for the number motorcycles then
Subtracted it from the number vehicles to get
the number of cars.

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Name_____

Full Parking Lot

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13 cars

X+4=20

7 motor cacles

11x+3Y= 66

We put the equation in the desmos calulator and look at the point they intersected and it intersect at (13,7)

STUDENT D Full Parking Lot Problem Algebra I 90 10 -20 -20 -ò -40 10 \$ 220 -20

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4 X10=40 4 X12=48	4	L	니	4	4
4x13=52	4	4	4	4	Н
2x7=14 15+14=66	4	Ч	4	2	2
	2	3	2	12	2

7 motorcycles

We drew 20 parking spaces and 1st filled 10 spots with cars and 10 with motorcycles with multiplied 10 by 2 for motorcycles and did the same for the cars but times 4, they didn't equal 66 so we kept using the same method incressing the number of cars until we added the total amount of cars wheels and motor-Cycle wheels to get 66.

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7 moter cycles 13 Cars

The picture Propresent's the parking 10th and the Dats on the Mede Proposent still car and motorcycle wreels.

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