

Place Value Strategy for Division

$$67 \text{ cars} \div 4 \text{ rows} = n$$

Think, "I need to divide 67 cars into 4 rows."

First, I can break 67 into 6 tens and 7 ones to make it easier for me to divide.

$$67 = 60 + 7$$

Now I can take 60 cars and divide those into 4 rows. So I think, what times 4 gets me close to 60. I know $10 \times 4 = 40$ so I'll start there. This means 10 cars will go in each row.

$$60 \div 4 = n$$

$$\textcircled{10} \times 4 = 40$$

I've placed 40 cars in rows out of the 60 cars I'm working with, so there are 20 cars left to place in rows.

$$60 - 40 = 20$$

Now, I will divide these 20 cars into 4 rows. I know $5 \times 4 = 20$. So, 5 more cars will go in each row.

$$\textcircled{5} \times 4 = 20$$

I have placed all 60 cars in rows, so now I will place my 7 cars into rows. I know that $1 \times 4 = 4$ and $2 \times 4 = 8$ which is more cars than I have. So I will use 1 more car in each row.

$$\textcircled{1} \times 4 = 4$$

I placed 4 of the 7 cars in rows, which means there are 3 cars left.

$$7 - 4 = 3$$

I now will add up how many cars I placed in each row (the numbers in circles).

$$10 + 5 + 1 = 16 \text{ cars}$$

So, I placed 16 cars in each row and have 3 cars left over.

$$67 \div 4 = 16 \text{ r}3$$