

Name: ..... Class: .....

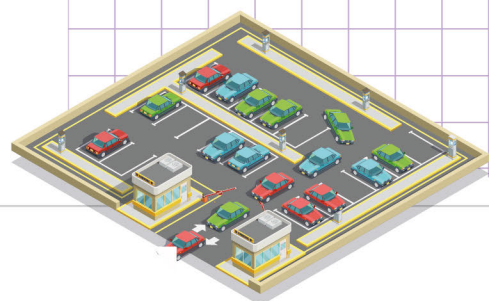
Write variable equations: word problems

- a. Mr. Smith has 50 students in his class. He split them up into 10 groups of same size to attend conferences in different schools. Write an equation to represent the number of students,  $t$ , in each group?

- b. Synthia bought some candies that costed \$ 28. she got \$ 5 as change after she paid for the candies. Write an equation to represent the total amount  $t$  she gave to the seller?



- c. There are 17 cars in the parking lot of a supermarket. 5 of those cars left within 10 minutes from the parking lot. Write an equation to represent the number of cars,  $c$ , remaining in the parking lot.



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## Write variable equations: word problems

- a.** Mr. Smith has 50 students in his class. He split them up into 10 groups of same size to attend conferences in different schools. Write an equation to represent the number of students,  $t$ , in each group?

Let's first find the keyword in our problem

-Mr. Smith split the students into 10 equal groups

It means that he divided the total number of students (50) in to 10 equal groups.

The keyword is divide

So, the equation is  $50 \div 10 = t$

Therefore,  $50 \div 10 = t$ , representing the number of students  $t$ , in each group.

- b.** Synthia bought some candies that costed \$ 28. she got \$ 5 as change after she paid for the candies. Write an equation to represent the total amount  $t$  she gave to the seller?

Let's first find the keyword in our problem

-Synthia bought some candies that costed \$28 and got \$5 as change after she paid

The keyword is total, which means add

So, the equation is  $\$28 + \$5 = t$

Therefore,  $\$28 + \$5 = t$ , representing the total amount Synthia paid.



- c.** There are 17 cars in the parking lot of a supermarket. 5 of those cars left within 10 minutes from the parking lot. Write an equation to represent the number of cars,  $c$ , remaining in the parking lot.

Let's first find the keyword in our problem

-17 cars were parked in the parking lot and 5 left within 10 minutes

The keyword here is left which means minus

So, the equation is  $17 - 5 = c$

Therefore,  $17 - 5 = c$ , representing the number of cars  $c$  remaining in the parking lot.

