

Unit 1 Objective 3 Remediation

Using Variables to Represent Unknown Quantities

Example: Membership in a gym at a community center costs \$15 per month plus a one-time fee of \$50. Write an equation for the total cost, c , for membership over m months.

So then, the cost is \$50 plus \$15 per month.

$$c = 50 + 15m$$

Write an equation using the indicated variables to represent the situation.

1) Jonas usually leaves a tip when he eats in a restaurant. The amount he tips is 0.15 times the cost of the meal; a and c .

2) Selah's weekly pay is \$300 plus \$11 for each hour of overtime; p and h .

3) At City Park, you can rent in-line skates and protective gear for \$2 per hour plus a \$3 fee. Write an equation for the situation.

4) If tickets for a baseball game cost \$27 each, how many can you buy with \$135?

5) How many \$15 fruit baskets can you buy if you have \$45?

6) Wisehaven tennis courts cost \$32 to rent for 1 hour. How many hours could you rent with \$96?

Write an equation given the table.

7)

Time (minutes)	Distance (feet)
1	12
2	24
3	36

8)

Time (hours)	1	4	5
Work (dollars)	15	60	75

9)

Time (hours)	0	1	2	3	4	5
Distance (miles)	0	24	48	72	96	120