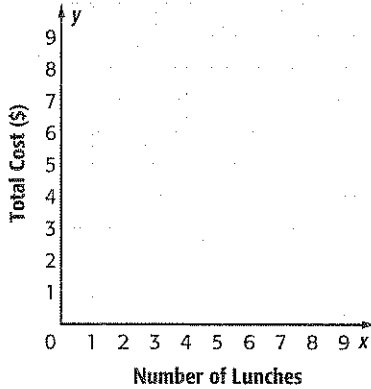


# Multiple Representations of Functions

## Guided Practice

1. The school cafeteria sells lunch passes that allow a student to purchase any number of lunches in advance for \$3 per lunch. (Examples 1–4)
  - a. Write an equation to find  $t$ , the total cost in dollars for a lunch pass with  $n$  lunches.
  - b. Make a function table to show the relationship between the number of lunches  $n$  and the cost  $t$ .
  - c. Graph the ordered pairs. Analyze the graph.

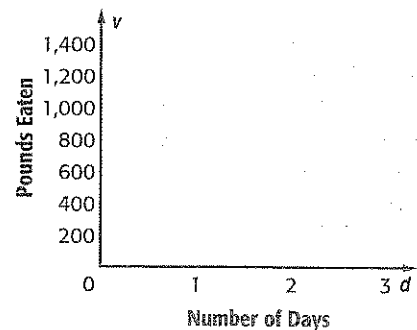
Number of Lunches, $n$			
Total Cost (\$), $t$			



## Independent Practice

1. An African elephant eats 400 pounds of vegetation each day. (Examples 1–4)
  - a. Write an equation to find  $v$ , the number of pounds of vegetation an African elephant eats in  $d$  days.
  - b. Make a table to show the relationship between the number of pounds  $v$  an African elephant eats in days  $d$ .
  - c. Graph the ordered pairs. Analyze the graph.

Number of Days, $d$			
Pounds Eaten, $v$			



Maurice receives \$3 per week for allowance and earns an additional \$1.75 for each chore he completes.

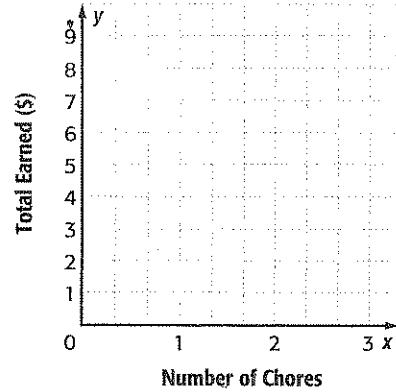
a. Write an equation to find  $t$ , the total amount earned for  $c$  chores in one week.

b. Make a function table to show the relationship between the number of chores completed  $c$  and the total amount earned  $t$  in one week.

Number of Chores, $c$			
Total Earned (\$), $t$			

c. Graph the ordered pairs:

d. How much will Maurice earn if he completes 5 chores in one week?



8. In a video game, each player earns 5 points for reaching the next level and 15 points for each coin collected.

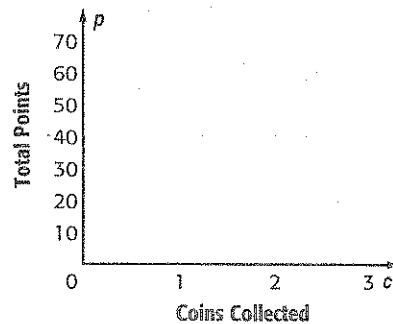
a. Write an equation to find  $p$ , the total points for collecting  $c$  coins after reaching the next level.  $p = 5 + 15c$

Total points  $p$  equals 15 times the number of coins  $c$  collected plus 5 points for reaching the next level. So, the equation is  $p = 5 + 15c$ .

b. Make a table to show the relationship between the number of coins collected  $c$  and the total points  $p$ .

Number of Coins, $c$			
Total Points, $p$			

c. Graph the ordered pairs. Analyze the graph.



9. Two disc jockeys charge different rates. The Music Man charges \$45 per hour and Road Tunes charges \$35 per hour. Write equations to represent the total cost of hiring either disc jockey for any number of hours.

