

## Making Connections

### Activity 3

1. Sam sells t-shirts on the beach. Complete the table by yourself to find the cost for different numbers of t-shirts. Then compare with your group.

<b>Input</b>	<b>Process</b>	<b>Output</b>
Number of T-shirts		Total Cost
10		75
20		150
30		225
40		
50		
200		
270		
		750
		2250
N		T

- a. Explain your strategy for completing the table and compare it with the strategies of others in your group.
- b. Use the second column to show the process.
- c. Write a sentence and a rule describing how the total cost is related to the number of t-shirts. Confirm your rule with your calculator.



## Making Connections

### Activity 3 (continued)

2. WLT Phone offers a different phone plan from its competitors. Complete the table by yourself to begin discovering their plan. Then compare with your group.

Input	Process	Output
Number of Hours		Cost of Phone Service
1		21
2		27
3		33
4		
5		
12		
		75
		165
H		C

- Explain your strategy for completing the table and compare it with the strategies of others in your group.
- Use the second column to show the process.
- Write a sentence and a rule describing the cost of the phone bill related to the number of hours. Confirm with your calculator.
- Write an equation for the output value of 75.
- Write an equation for the output value of 165.



### Making Connections

#### Activity 3 (continued)

3. Suppose a toy parachute is dropped from a height of 20 feet and falls at a rate of 2 feet per second. Complete the table by yourself. Then compare with your group.

Input	Process	Output
Time (seconds)		Height (feet)
0		20
T		H

- Explain your strategy for completing the table and compare it with the strategies of others in your group.
- Use the second column to show the process.
- Write a sentence and a rule describing the height in relation to the time. Confirm your rule with your calculator.

