Variables and Patterns

Complete each table given the rule.

Rule: Output = Input
$$\cdot$$
 5

Rule: Output = Input
$$\cdot$$
 2

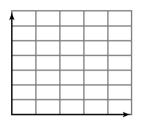
Input	10	20	30	40	50
Output	20	40	60		

Rule: Output = Input
$$+ 3$$

3.	Input	3	4	5	6	7
	Output	6	7	8		

Graph the data in each table.

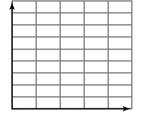
4.	Hours	Wage
	1	\$15
	2	\$30
	3	\$45
	4	\$60



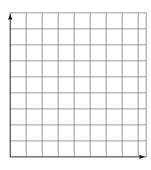
2.

16

4



6. A parking garage charges \$3.50 per hour to park. The equation c = 3.5 h shows how the number of hours h relates to the parking charge c. Graph this relationship.



Use the expression to complete each table.

21

Skill: Variables, Tables, and Graphs (continued)

Investigation 3

Variables and Patterns

10. A cellular phone company charges a \$49.99 monthly fee for 600 free minutes. Each additional minute costs \$0.35. This month you used 750 minutes. How much do you owe?

Write a rule for the relationship between the variables represented in each table.

11.

x	у
1	6
2	7
3	8
4	9

12.

x	у
1	4
2	8
3	12
4	16

13.

x	y
1	4
2	7
3	10
4	13

- **14.** A typist types 45 words per minute.
 - **a.** Write a rule to represent the relationship between the number of typed words and the time in which they are typed.
 - **b.** How many words can the typist type in 25 minutes? Write and solve an equation to answer this.
 - **c.** How long would it take the typist to type 20,025 words?