

Use More Language

Objective Use *if* to talk and write about patterns, function tables, and ordered pairs.

Learn the Language

<p>1 3 9 27 ? ?</p>	<table border="1"> <thead> <tr> <th>input</th> <th>output</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>9</td> </tr> <tr> <td>2</td> <td>10</td> </tr> <tr> <td>3</td> <td>11</td> </tr> <tr> <td>4</td> <td>12</td> </tr> <tr> <td>5</td> <td>?</td> </tr> <tr> <td>6</td> <td>?</td> </tr> </tbody> </table>	input	output	1	9	2	10	3	11	4	12	5	?	6	?	
input	output															
1	9															
2	10															
3	11															
4	12															
5	?															
6	?															
<p>If I multiply each number by 3, I get the next number in the pattern.</p> <p>If I multiply 27 by 3, I get 81.</p> <p>If I multiply 81 by 3, I get 243.</p>	<p>If I add 8 to each input number, I get the output number.</p> <p>If I add 8 to 5, I get 13.</p> <p>If I add 8 to 6, I get 14.</p>	<p>If I start at 0 and move 5 units to the right and 6 units up, I get to the ordered pair (5, 6).</p>														

Practice the Language

Directions Write either the first part or the second part of the *if* sentences. Answer number 7 in a complete sentence on a separate sheet of paper.

1 If I start at 0 and move 4 units to the right and 1 unit up, _____

2 _____

_____,
I get to the ordered pair (7, 9).

Use the number pattern below for questions 3 and 4:
5, 10, 15, 20, ?

3 _____
_____, I get the next number.

4 If I add 5 to 20, _____.

Use the table below for numbers 5 and 6:

input	4	5	6	7
output	12	15	18	?

5 _____,
_____, I get the
output number.

6 If I multiply 7 by 3, _____.

7 Write a sentence with *if* about the number
pattern 64, 32, 16, 8, 4, 2, ?. _____

