

I can complete a function table that relates the independent variable to the dependent variable and write an algebraic equation rule for the table.

Function Tables Pre-Assessment

Name _____

IF

x	0	1	2	3
y	4	5	6	7

$$x + 4 = y$$

DO

x	3	6	9	12
y	1	4	7	10

x	1	2	3	4
y	4	8	12	16

x	y
10	20
15	25
20	30
25	35

x	y
1	20
2	10
4	5
5	4

=====

A Questions: What do you do to x to get y ?

1.

x	0	2	4	6
y	6	8	10	12

2.

x	5	8	11	14
y	0	3	6	9

3.

x	y
0	0
1	3
2	6
3	9

4.

x	y
5	1
10	2
15	3
20	4

Fill in the Table and then Write the Algebraic Equation

5.

x	4	5	6	10
y	5	6		

7.

x	y
21	15
24	18
27	
30	

6.

x	2	3	4	5
y		18		30

Check Your Answers:

- Y N
- Y N
- Y N
- Y N
- Y N
- Y N
- Y N

B Questions:

Describe how you find the next term in the sequence. Then find the next 3 terms.

1. 0, 15, 30, 45, ... Arithmetic or Geometric How would you find the next terms? _____ Next 3 Terms? _____	2. 4.5, 4, 3.5, 3, ... Arithmetic or Geometric How would you find the next terms? _____ Next 3 Terms? _____
3. 1, 3, 9, 27, ... Arithmetic or Geometric How would you find the next terms? _____ Next 3 Terms? _____	4. 3, 6, 12, 24, ... Arithmetic or Geometric How would you find the next terms? _____ Next 3 Terms? _____

Write the algebraic equation rule for each table.

5.

Input (<i>x</i>)	Output (<i>y</i>)
1	4
2	7
3	10
4	13

6.

Input (<i>x</i>)	Output (<i>y</i>)
1	5
2	7
3	9
4	11

7.

Input (<i>x</i>)	Output (<i>y</i>)
1	13
2	21
3	29
4	37

8.

<i>x</i>	1	2	3	4	5
<i>y</i>	1	4	9	16	25

9.

<i>x</i>	1	2	3	4	5
<i>y</i>	1	5	9	13	17

I can complete a function table that relates the independent variable to the dependent variable and write an algebraic equation rule for the table.

Function Tables Pre-Assessment

Name Key

IF

x	0	1	2	3
y	4	5	6	7

$$x + 4 = y$$

DO

x	3	6	9	12
y	1	4	7	10

$$x - 2 = y$$

x	1	2	3	4
y	4	8	12	16

$$4 \cdot x = y$$

x	y
10	20
15	25
20	30
25	35

$$x + 10 = y$$

x	y
1	20
2	10
4	5
5	4

$$20 \div x = y$$

A Questions: What do you do to x to get y?

1.

x	0	2	4	6
y	6	8	10	12

$$x + 6 = y$$

2.

x	5	8	11	14
y	0	3	6	9

$$x - 5 = y$$

3.

x	y
0	0
1	3
2	6
3	9

$$x \cdot 3 = y$$

4.

x	y
5	1
10	2
15	3
20	4

$$x \div 5 = y$$

Fill in the Table and then Write the Algebraic Equation

5.

x	4	5	6	10
y	5	6	7	11

$$x + 1 = y$$

6.

x	2	3	4	5
y	12	18	24	30

$$6x = y$$

7.

x	y
21	15
24	18
27	21
30	24

$$x - 6 = y$$

Check Your Answers:

- | | | |
|----|---|---|
| 1. | Y | N |
| 2. | Y | N |
| 3. | Y | N |
| 4. | Y | N |
| 5. | Y | N |
| 6. | Y | N |
| 7. | Y | N |

B Questions:

Describe how you find the next term in the sequence. Then find the next 3 terms.

1. 0, 15, 30, 45, ... $\begin{array}{c} \text{+15} \quad \text{+15} \quad \text{+15} \\ \text{Arithmetic} \text{ or } \text{Geometric} \end{array}$ How would you find the next terms? <u>+15 to previous term</u> Next 3 Terms? <u>60</u> <u>75</u> <u>90</u>	2. 4.5, 4, 3.5, 3, ... $\text{Arithmetic} \text{ or } \text{Geometric}$ How would you find the next terms? <u>- 0.5 from previous term</u> Next 3 Terms? <u>2.5</u> <u>2</u> <u>1.5</u>
3. 1, 3, 9, 27, ... $\begin{array}{c} \times 3 \quad \times 3 \quad \times 3 \\ \text{Arithmetic} \text{ or } \text{Geometric} \end{array}$ How would you find the next terms? <u>$\times 3$ to previous term</u> Next 3 Terms? <u>81</u> <u>243</u> <u>729</u>	4. 3, 6, 12, 24, ... $\begin{array}{c} \times 2 \quad \times 2 \quad \times 2 \\ \text{Arithmetic} \text{ or } \text{Geometric} \end{array}$ How would you find the next terms? <u>$\times 2$ to previous term</u> Next 3 Terms? <u>48</u> <u>96</u> <u>192</u>

Write the algebraic equation rule for each table.

5. <table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Input (x)</th> <th>Output (y)</th> </tr> </thead> <tbody> <tr><td>1</td><td>4</td></tr> <tr><td>2</td><td>7</td></tr> <tr><td>3</td><td>10</td></tr> <tr><td>4</td><td>13</td></tr> </tbody> </table> $\left. \begin{array}{l} \times 3 \\ \times 3 \\ \times 3 \\ \times 3 \end{array} \right\} \begin{array}{l} +3 \\ +3 \\ +3 \\ +3 \end{array}$ <u>$3x + 1 = y$</u>	Input (x)	Output (y)	1	4	2	7	3	10	4	13	6. <table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Input (x)</th> <th>Output (y)</th> </tr> </thead> <tbody> <tr><td>1</td><td>5</td></tr> <tr><td>2</td><td>7</td></tr> <tr><td>3</td><td>9</td></tr> <tr><td>4</td><td>11</td></tr> </tbody> </table> $\left. \begin{array}{l} \times 2 \\ \times 2 \\ \times 2 \\ \times 2 \end{array} \right\} \begin{array}{l} +2 \\ +2 \\ +2 \\ +2 \end{array}$ <u>$2x + 3 = y$</u>	Input (x)	Output (y)	1	5	2	7	3	9	4	11	7. <table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Input (x)</th> <th>Output (y)</th> </tr> </thead> <tbody> <tr><td>1</td><td>13</td></tr> <tr><td>2</td><td>21</td></tr> <tr><td>3</td><td>29</td></tr> <tr><td>4</td><td>37</td></tr> </tbody> </table> $\left. \begin{array}{l} \times 8 \\ \times 8 \\ \times 8 \\ \times 8 \end{array} \right\} \begin{array}{l} +8 \\ +8 \\ +8 \\ +8 \end{array}$ <u>$8x + 5 = y$</u>	Input (x)	Output (y)	1	13	2	21	3	29	4	37
Input (x)	Output (y)																															
1	4																															
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x	1	2	3	4	5																											
y	1	4	9	16	25																											
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