**Function Tables**

Directions:

Translate each statement into a mathematical equation, and then complete the function table:

1. *y* is equal to two more than the product of *x* and 3.

Mathematical translation:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Complete the table of values:

|  |  |
| --- | --- |
| *x* | Y |
| 0 |  |
| 1 |  |
| 2 |  |
| 3 |  |

2. *y* is equal to three less than the product of 2 and *x*.

Mathematical translation:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Complete the table of values:

|  |  |
| --- | --- |
| x | Y |
| 3 |  |
| 4 |  |
| 5 |  |
| 6 |  |

3. *y* is equal to the quotient of *x* and 2.

Mathematical translation:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Complete the table of values:

|  |  |
| --- | --- |
| *x* | Y |
| 0 |  |
| 2 |  |
| 4 |  |
| 6 |  |

4. *y* is equal to two less than the sum of 2 and *x*.

Mathematical translation:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Complete the table of values:

|  |  |
| --- | --- |
| *x* | Y |
| 0 |  |
| 1 |  |
| 2 |  |
| 3 |  |

5. *y* is equal to one more than the product of 2 and *x*.

Mathematical translation:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Complete the table of values:

|  |  |
| --- | --- |
| *x* | Y |
| 0 |  |
| 1 |  |
| 2 |  |
| 3 |  |

For each of the next problems match the line with the equation.

1.



A. y = 2x + 2 B. y = 3x C. y = 4x – 2 D. y = x + 4

2.



A. y = x + 2 B. y = 2x C. y = 6x – 10 D. y = 5x

3.



A. $y= \frac{x}{3}+1$ B. $y= x+1$ C. $y= \frac{x}{2}$ D. $y= 2x-4$

4.



A. y = 2x B. y = 3x - 4 C. y = x + 2 D. y = x

5.



A. $y= \frac{x}{4}+\frac{1}{2}$ B. $y= x-1$ C. $y= \frac{x}{2 }+1$ D. $y= 3x-5$

6



A. y = 4x - 3 B. y = 3x C. y = 2x + 1 D. y = x – 3

**Activity: Amusement Park Problem**

An amusement park charges $1.50 per ride and an additional $10 to get into the park.

Let x = the number of rides you ride and y = the total cost.

Write an equation for this situation:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Now create a table of values with at least **four** x and y values using this equation:

|  |  |
| --- | --- |
| *x*  | *y* |
|  |  |
|  |  |
|  |  |
|  |  |

Graph the points above. What relationship is there between x and y?



**Activity: Car Wash Problem**

**Jake is volunteering at a car wash to help raise money for his school. They are charging $5.00 per car.**

Let *x* = the number of cars and *y* = the amount of money raised

Write an equation from the information above.

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Complete the table of values below using your equation.

|  |  |
| --- | --- |
| x | *y* |
| 0 |  |
| 1 |  |
| 2 |  |
| 3 |  |

Use your points to graph your equation. What is the relationship between *x* and *y*?

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

