**Chapter Quiz**

**1.** Complete the function table at the right.

**Use words and symbols to describe the value of each term as a function of its position. Then find the twelfth term in each sequence.**

**2.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Position** | 1 | 2 | 3 | 4 | *n* |
| **Value of Term** | 3 | 6 | 9 | 12 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Position** | 5 | 6 | 7 | 8 | *n* |
| **Value of Term** | 0 | 1 | 2 | 3 |  |

**3.**

**Write an equation to represent the function.**

**4. 5.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Input, *x*** | 0 | 1 | 2 | 3 |
| **Output, *y*** | 0 | 12 | 24 | 36 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Input, *x*** | 1 | 2 | 3 | 4 |
| **Output, *y*** | 4 | 8 | 12 | 16 |

**Use the following information for Exercises 6-9.**

**SPORTS** In a football game, each team earns 6 points for each touchdown it scores.

**6.** Write an equation to find *y*, the total number of points for scoring touch downs.

**7.** Make a table to show the relationship between the number of touchdowns scored *x* and the total points *y* for 1, 2, and 3 touchdowns.

**8.** Graph the ordered pairs (*x*, *y*).

**9.** How many points will a team earn if they score 7 touchdowns?

**1.**

|  |  |  |
| --- | --- | --- |
| **Input, *x*** | ***x* – 4** | **Output, *y*** |
| 4 |  |  |
| 6 |  |  |
| 8 |  |  |

**2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |  |
| --- | --- | --- | --- |
| **Touchdowns, *x*** |  |  |  |
| **Points, *y*** |  |  |  |

**8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**



**9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**