

Chapter Quiz

1. Complete the function table at the right.

1.

Input, x	$x - 4$	Output, y
4	$4 - 4$	0
6	$6 - 4$	2
8	$8 - 4$	4

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	■

3.

Position	5	6	7	8	n
Value of Term	0	1	2	3	■

- Multiply the position number by 3; $3n$; 36
2. _____
- Subtract 5 from the position number;
3. $n - 5$; 7

Write an equation to represent the function.

4.

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

5.

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

- $y = 4x$
4. _____
- $y = 12x$
5. _____

Use the following information for Exercises 6–9.

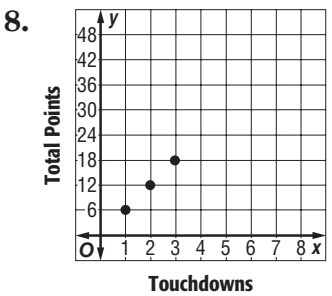
SPORTS In a football game, each team earns 6 points for each touchdown it scores.

6. Write an equation to find y , the total number of points for scoring x touchdowns.
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) .

6. $y = 6x$

7.

Touchdowns, x	1	2	3
Points, y	6	12	18



9. 42 points

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