

# Lesson 17

## Table of Values

NAME:



Start by navigating to the Online Lesson for instructions.

### Objectives

- ✓ Given an equation with two variables, use the substitution property to find a missing variable
- ✓ Complete a table by solving for the missing values

### Why?

Completing a table by solving for missing values helps us see how equations, patterns, and graphs are all connected. By identifying relationships between numbers, we build the same skills used in algebra, science, and everyday situations—such as comparing cost and time or distance and speed.

### Explore

#### Table of Values

▶ *Fill in the notes as you watch the video in the Online Lesson.*

- A table of values for an equation is a set of \_\_\_\_\_ you can graph on a coordinate plane.
- The \_\_\_\_\_ between the  $x$ - and  $y$ -coordinates can be determined by completing a table of values.
- To complete a table of values using the given equation:
  - 1) \_\_\_\_\_ the values for the variable  $x$ , one at a time, into the equation.
  - 2) \_\_\_\_\_ the equation for the missing variable,  $y$ .

**Example 1**

▶ Complete the example as you watch the video in the Online Lesson.

Complete the table using the equation.

$$y = \frac{1}{2}x - 3$$

**Implement**

$x$	$y$
-2	
0	
2	

**Explain**

- ▶ Replace the  $x$ -values one at a time to solve for  $y$ .
- ▶ Complete the table.

**Example 2**

▶ Complete the example as you watch the video in the Online Lesson.

Complete the table using the equation.

$$y = -\frac{5}{3}x + 1$$

**Implement**

$x$	$y$
-3	
0	
3	

**Explain**

- ▶ Replace the  $x$ -values one at a time to solve for  $y$ .
- ▶ Complete the table.

 Practice

Complete the table of values. Show your work.

1)  $y = 3x + 2$

$x$	$y$
-1	
0	
1	

2)  $y = \frac{1}{4}x$

$x$	$y$
-4	
0	
4	

3)  $y = -x + 3$

$x$	$y$
-1	
0	
1	

Complete the table of values. Show your work.

4)  $y = \frac{2}{3}x + 2$

$x$	$y$
-3	
0	
3	

5)  $y = -\frac{5}{4}x - 1$

$x$	$y$
-4	
0	
4	

6)  $y = -12x - 3$

$x$	$y$
-1	
0	
1	



To continue, return to the Online Lesson.