

Name \_\_\_\_\_

**Equations and Tables**



**COMMON CORE STANDARD—6.EE.C.9**  
Represent and analyze quantitative relationships between dependent and independent variables.

Use the equation to complete the table.

1.  $y = 6x$

Input	Output
$x$	$y$
2	12
5	30
8	48

2.  $y = x - 7$

Input	Output
$x$	$y$
10	
15	
20	

3.  $y = 3x + 4$

Input	Output
$x$	$y$
3	
4	
5	

Write an equation for the relationship shown in the table. Then find the unknown value in the table.

4.

$x$	2	3	4	5
$y$	16	?	32	40

5.

$x$	18	20	22	24
$y$	9	10	?	12

**Problem Solving**



6. Tickets to a play cost \$11 each. There is also a service charge of \$4 per order. Write an equation for the relationship that gives the total cost  $y$  in dollars for an order of  $x$  tickets.

7. Write an equation for the relationship shown in the table. Then use the equation to find the estimated number of shrimp in a 5-pound bag.

Weight of bag (pounds), $x$	1	2	3	4
Estimated number of shrimp, $y$	24	48	72	96

8. **WRITE** *Math* Write a word problem that can be represented by a table and equation. Solve your problem and include the table and equation.

## Lesson Check (6.EE.C.9)

1. Write an equation that represents the relationship shown in the table.

$x$	8	10	12	14
$y$	4	6	8	10

2. There is a one-time fee of \$27 to join a gym. The monthly cost of using the gym is \$18. Write an equation for the relationship that gives the total cost  $y$  in dollars of joining the gym and using it for  $x$  months.

## Spiral Review (6.EE.B.5, 6.EE.B.6, 6.EE.B.7, 6.EE.C.9)

3. Mindy wants to buy several books that each cost \$10. She has a coupon for \$6 off her total cost. Write an expression to represent her total cost in dollars for  $b$  books.

4. When a coupon of \$1.25 off is used, the cost of a taco meal is \$4.85. The equation  $p - 1.25 = 4.85$  can be used to find the regular price  $p$  in dollars of a taco meal. How much does a regular taco meal cost?

5. Which of the following are solutions to the inequality  $n > -7$ ?

$$n = -7, n = -6.9, n = -7.2, n = -6\frac{1}{2}$$

6. Marcus sold brownies at a bake sale. He sold  $d$  dollars worth of brownies. He spent \$5.50 on materials, so his total profit  $p$  in dollars can be found by subtracting \$5.50 from his earnings. Write an equation that represents this situation.

