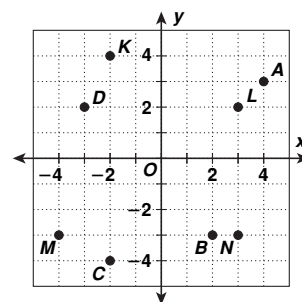


**CHAPTER 2** **At-Home Practice**  
**2** **Applying Integers**

Name the quadrant where each point is located.

1. *K*                      2. *L*                      3. *M*                      4. *N*
- \_\_\_\_\_



Give the coordinates of each point.

5. *A*                      6. *B*                      7. *C*                      8. *D*
- \_\_\_\_\_

Write an equation in two variables that gives the values in each table.  
 Use the equation to find the value of *y* for the indicated value of *x*.

9.

<i>x</i>	2	3	4	5	6	10
<i>y</i>	3	5	7	9	11	■

\_\_\_\_\_

10.

<i>x</i>	2	3	5	7	12
<i>y</i>	8	9	11	13	■

\_\_\_\_\_

Use the given *x*-values to write solutions of each equation as ordered pairs.

11.  $y = 3x - 2$  for  $x = 1, 2, 3, 4$                       12.  $y = -6x + 4$  for  $x = 1, 2, 3, 4$

\_\_\_\_\_

Determine whether each ordered pair is a solution of the given equation.

13.  $(2, 5)$ ;  $y = 6x - 5$                       14.  $(-4, 1)$ ;  $y = x + 5$

\_\_\_\_\_

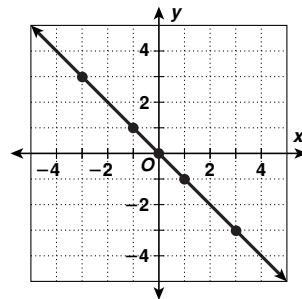
Use the graph of the linear function to find the value of *y* for each given value of *x*.

15.  $x = -3$                       16.  $x = 0$

\_\_\_\_\_

17.  $x = 1$                       18.  $x = 3$

\_\_\_\_\_



**Answers:** 1. Quadrant II 2. Quadrant I 3. Quadrant I 4. Quadrant IV 5.  $(4, 3)$  6.  $(2, -3)$  7.  $(-2, -4)$  8.  $(-3, 2)$  9.  $y = 2x - 1$ ;  $y = 19$  10.  $y = x + 6$ ;  $y = 18$  11.  $(1, 1)$ ;  $(2, 4)$ ;  $(3, 7)$ ;  $(4, 10)$  12.  $(1, -8)$ ;  $(3, -14)$ ;  $(4, -20)$  13. No;  $5 \neq 6(2) - 5$  which simplifies to  $5 \neq 7$  14. Yes;  $1 = -4 + 5$  which simplifies to  $1 = 1$  15.  $y = 3$  16.  $y = 0$  17.  $y = -1$  18.  $y = -3$

CHAPTER

2

# Family Fun

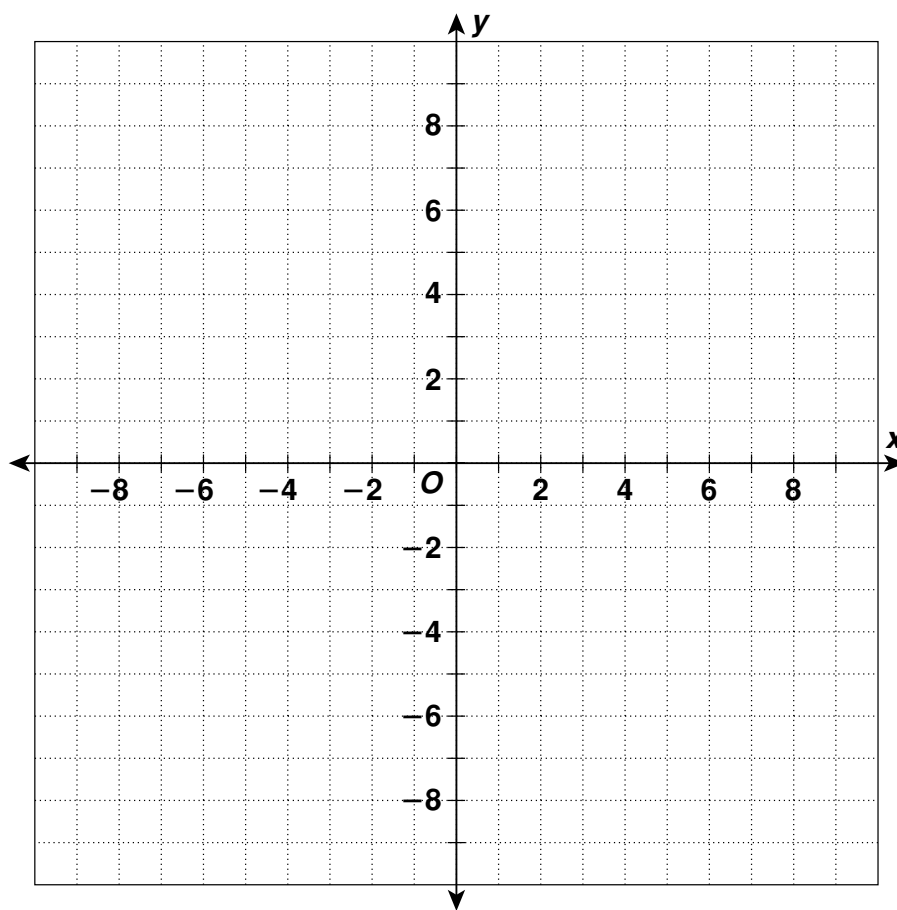
## Plotting Points

### Directions

Solve each problem. Match the answer to an ordered pair and plot the point. Connect the ten points with straight lines to find the mystery shape. (Hint: If you plot all of the ordered pairs, you will not get the correct shape.)

$-40 \cdot 6 =$  \_\_\_\_\_     $-18 + (-4) =$  \_\_\_\_\_     $8 \cdot (-8) =$  \_\_\_\_\_     $(-8)^2 =$  \_\_\_\_\_  
 $72 \div (-9) =$  \_\_\_\_\_     $35 - (-6) =$  \_\_\_\_\_     $-3 \cdot -4 \cdot 2 =$  \_\_\_\_\_  
 $300 \div (-10) =$  \_\_\_\_\_     $-12 + (-38) =$  \_\_\_\_\_  
 $-48 \div -6 =$  \_\_\_\_\_

Ordered Pairs	Answer
$(-8, 5)$	-41
$(0, 0)$	-240
$(2, 5)$	25
$(-3, 0)$	24
$(-6, 3)$	-22
$(-3, -3)$	64
$(3, 0)$	41
$(3, -3)$	-30
$(6, 3)$	-50
$(3, 3)$	-8
$(-3, 3)$	-64
$(-2, 1)$	-24
$(0, 6)$	8



Answers: -240, -22, -64, 64, -8, 41, 24, -30, -30, -50, 8, The mystery shape is a star.