

Guided Practice

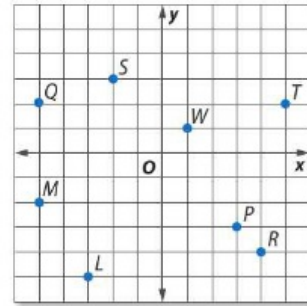


Name the ordered pair for each point graphed at the right. (Example 1)

1. Q
2. P
3. T
4. M

Graph and label each point on a coordinate plane. Name the quadrant in which each point is located. (Example 2)

5. $A(-2, 3)$
6. $B(4, -1)$
7. $C(-3, -2)$
8. $D(0, -5)$



9. **CCSS Model with Mathematics** The difference of two temperatures is 4°F . If x represents the first temperature and y represents the second temperature, make a table of possible values for x and y . Graph the ordered pairs and describe the graph. (Example 3)

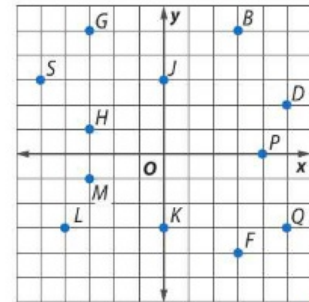
Independent Practice

Go online for Step-by-Step Solutions



Name the ordered pair for each point graphed at the right. (Example 1)

10. S
11. H
12. D
13. B
14. M
15. L
16. F
17. Q
18. K
19. J



Graph and label each point on a coordinate plane. Name the quadrant in which each point is located. (Example 2)

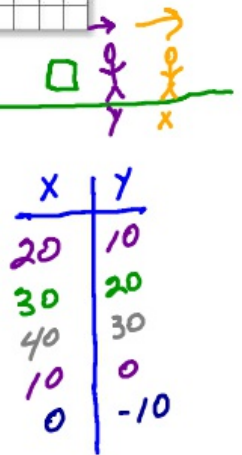
20. $Z(-1, 1)$
21. $Y(-2, 3)$
22. $X(5, 6)$
23. $W(6, 2)$
24. $V(-1, -6)$
25. $S(2, -1)$
26. $T(-5, 0)$
27. $R(0, -4)$
28. $P(-4, 5)$
29. $Q(-3, 3)$
30. $N(1, -1)$
31. $K(5, -3)$

32. **CCSS Model with Mathematics** After two plays, the Wildcats gained a total of 16 yards. If x represents the number of yards for play one, and y represents the number of yards for play two, make a table of possible values for x and y . Graph the ordered pairs and describe the graph. (Example 3)

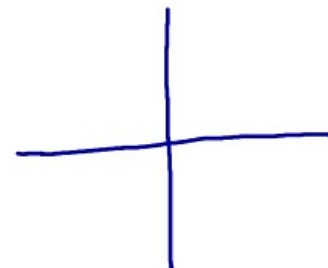
33. **CCSS Model with Mathematics** The distance between two runners in a race is 10 feet. If x represents the position of one runner in relation to a water stop and y represents the position the second runner, make a table of possible values for x and y . Graph the ordered pairs and describe the graph. (Example 3)

CCSS Persevere with Problems Name the quadrant in which each point lies.

34. $A(5, |-6|)$
35. $E(|-5|, -3)$
36. $J(x, y)$ if $x < 0, y > 0$
37. $U(x, y)$ if $x > 0, y < 0$



38. Consider the points $A(-4, 3)$, $B(1, 3)$, $C(1, 2)$, and $D(-4, 2)$.
- Graph the points on a coordinate plane and connect them to form a rectangle.
 - Add 4 to the x-coordinate of each ordered pair and redraw the figure.
 - Compare the two rectangles.



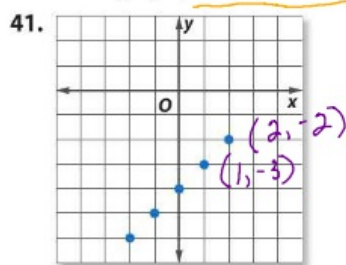
39. **STEM** The table shows temperatures in degrees Celsius and the corresponding temperatures in degrees Fahrenheit. Graph the ordered pairs ($^{\circ}\text{Celsius}$, $^{\circ}\text{Fahrenheit}$) to show the relationship between degrees Celsius and degrees Fahrenheit.

x	Celsius	-10	-5	0	5	10
y	Fahrenheit	14	23	32	41	50

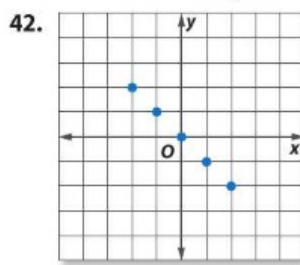
40. **Financial Literacy** The table shows the balance on a \$50 music card after a certain number of songs have been downloaded.
- Make a graph to show how the number of songs downloaded and the remaining balance are related.
 - Use your graph to find the balance on the card after 25 songs have been downloaded.

Songs Downloaded	Balance (\$)
0	50
5	45
10	40
15	35

For each graph, create a table showing the rule and the values for x and y .



x	y
2	-2
1	-3



Graph and label each point on a coordinate plane.

43. $A(-6.5, 3)$ 44. $B(-2, -5.75)$ 45. $C(4.1, -1)$ 46. $D(-3.4, 1.5)$



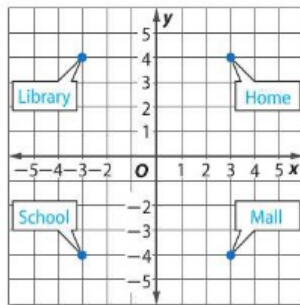
H.O.T. Problems Higher Order Thinking

47. **CCSS Identify Structure** Write the coordinates of a point located in quadrant II.
48. **CCSS Persevere with Problems** The product of two numbers is 12.
- Make a table using -3 , -2 , -1 , 1 , 2 , and 3 as x values.
 - Graph the ordered pairs. Compare and contrast this graph with the one in Example 3.
49. **CCSS Persevere with Problems** Determine whether each statement is *always*, *sometimes*, or *never* true. Explain or give a counterexample to support your answer.
- Both x - and y -coordinates of a point in quadrant I are negative.
 - The x -coordinate of a point that lies on the x -axis is negative.
50. **e Building on the Essential Question** How does the location of the points $(-7, 8)$ and $(8, -7)$ change if you multiply each of the coordinates in each ordered pair by -1 ? Explain your reasoning to a classmate.



Standardized Test Practice

51. Which point on the graph best represents the location of the library?



- A (3, 4) C (-3, 4)
 B (-3, -4) D (3, -4)
52. What building is located at point $(-3, -4)$ on the graph above?
- F School H Library
 G Mall J Home

53. In which quadrant on the coordinate plane is point $(2, -3)$?

- A quadrant I
 B quadrant II
 C quadrant III
 D quadrant IV

54. **Short Response** Juan wants to rent 4 DVDs. Each DVD costs \$3 for two days. Complete the table to show his total cost for the number of days given.

Number of Days	Total Cost (\$)
2	■
4	■
6	■



Common Core Review

Find each quotient. 7.NS.2b

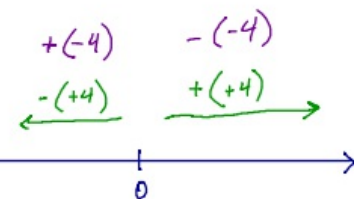
55. $-27 \div (-9)$

56. $-77 \div 7$

57. $-300 \div 6$

58. **STEM** A glacier was receding at a rate of 300 feet per day. What is the glacier's movement in 5 days? (Hint: The word *receding* means *moving backward*.) 7.NS.2a

59. Lincoln High School's swim team finished the 4×100 -meter freestyle relay in 5 minutes 18 seconds. Prospect High School's swim team finished the race in 5 minutes 7 seconds. Write an integer that represents Lincoln's finish compared to Prospect's finish. 7.NS.1c



Evaluate each expression. 7.NS.1

60. $|-9 - 1|$

61. $|10| - |-4|$

62. $|16| + |-5|$

Find each sum. 7.NS.1

63. $-85 + 15$

64. $-13 + (-8)$

65. $-10 + 12$

Evaluate each expression if $a = -5$, $b = 4$, and $c = -9$. 7.NS.1, 7.NS.2

66. $4a + c$

67. $4b + c$

68. $-b + 2a$

69. $-b - 2a$

70. $a(b + c)$

71. $a(b - c)$

72. $|a - b|$

73. $4a \div (5b)$

74. $(c - a) \cdot (a - c)$

Handwritten work for problem 68:
 $-5[4 - (-9)]$
 $-5(13)$
 -65

$H(4, -3)$

$I(-1, 4)$

$J(0, -2)$

