1. III

2. II

3. IV

4. I

5. II

6. III

7. (0, −7)

8. (3, 0)

9. (−2, 4)

10. (−4, −2)

11. (−8, 3)

12. (1, −4)

13-28.
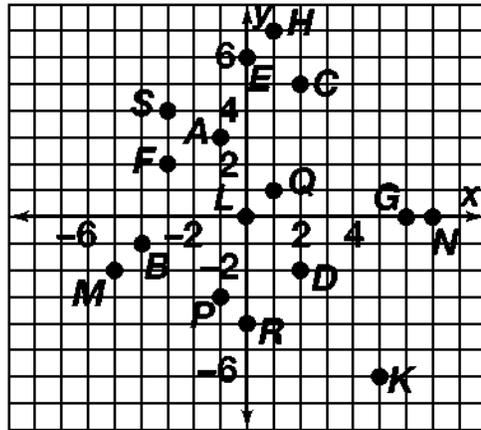
29. (0, 0)

30. *Q*

31. *F*

32. *M*

33. *P*

34. (2, −3)

35. (−2, 3)

36. (−5, 0)

37. (6, 6)

38. (−5, −2)

39. (0, −4)

40. B

41. IV

42. I

43. II

44. III

45. I

46. *y*-axis

47. III

48. IV

49. *y*-axis

50. II

51. triangle
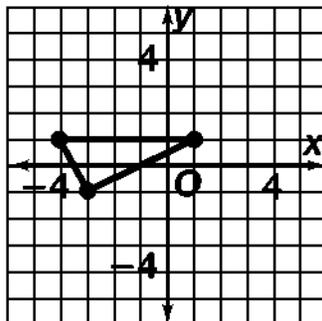
52. rectangle
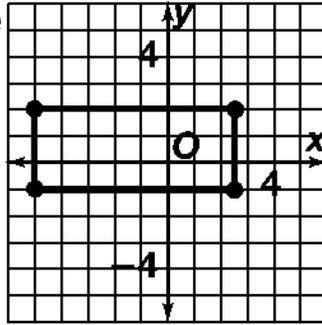
53. parallelogram
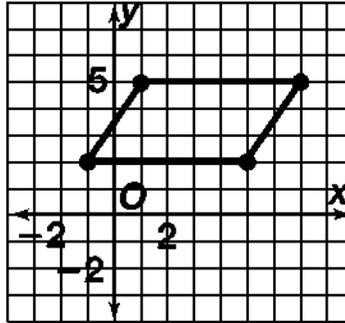
54. square
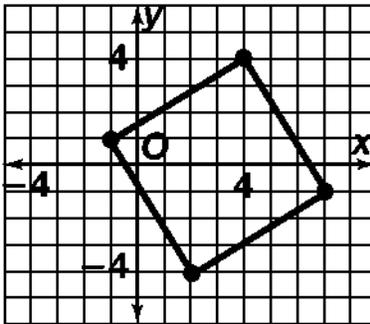
55. (0, −5)

56. (−1, −2)

57. about 90° W, 32° N

58. about 96° W, 39° N

59. Frankfort, Kentucky

60. Santa Fe, New Mexico

61.

62. a.

b.

c.

d.
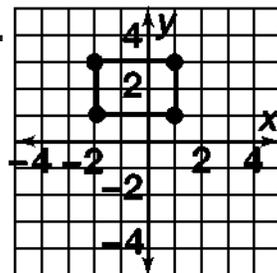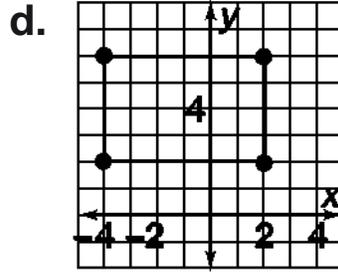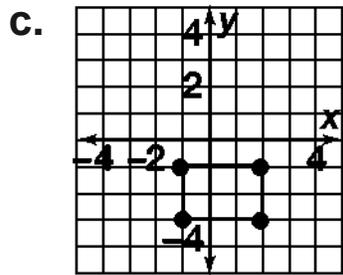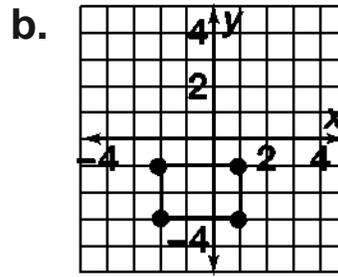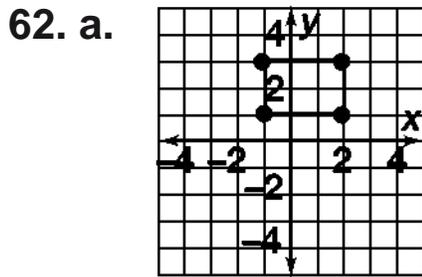
63. Answers may vary. Sample: 62a flips the figure across the *y*-axis. 62b flips the figure across the *x*-axis. 62c flips the figure across one axis and then the other. 62d doubles the lengths of the sides.

64. Check students' work.

65. Explanations may vary. Sample: No; since *a* and *b* describe positions on two number lines, (*a*, *b*) and (*b*, *a*) describe different points (unless *a* = *b*).

66. *A*(3, 0), *B*(0, 3), *C*(−3, 0), *D*(0, −3)