Name Date

Practice A

4.4

Find and label each pair of points in a coordinate plane. Find the length of the line segment connecting the points.

 1.  2.  3. 

 \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

Draw the polygon with the given vertices in a coordinate plane.

 4.  5. 

 6.  7. 

Find the perimeter and area of the polygon with the given vertices.

Hint: You may draw it on your coordinate grid to help.

 8.  9. 

 Perimeter: \_\_\_\_\_\_\_\_\_\_ Perimeter: \_\_\_\_\_\_\_\_\_\_

 Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 10. You design a courtyard using a coordinate plane. You plot the vertices of the courtyard at *F*(1, 0), *G*(5, 8), and *H*(1, 8). The coordinates are measured in yards.

 a. What is the shape of the courtyard? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 b. What is the area of the courtyard? \_\_\_\_\_\_\_\_\_\_\_\_

Draw a polygon with the given conditions in a coordinate plane.

 11. a rectangle with a perimeter of 20 units

 12. a square with a perimeter of 16 units

 13. a square with an area of 25 square units

 14. a triangle with an area of 6 square units

 15. The coordinate plane shows three vertices of a parallelogram. Find two possible points that could represent the fourth vertex.





**Remember: Keep, Change, Flip** and **Change mixed numbers to improper fractions first!**

 27. \_\_\_\_\_\_\_\_ 28. \_\_\_\_\_\_\_\_ 29. \_\_\_\_\_\_\_\_ 30. \_\_\_\_\_\_\_\_