

Plotting Points on a Coordinate Grid



Try These

 a) Name the letter on the grid represented by each ordered pair.

(2,5) ____ (6,7) ____ (1,4) ____

(9,6) ____ (7,2) ____ (3,8) ____

b) Plot each point on the grid.

G(5, 4), H(10, 10), I(0, 9),

J(0, 2), K(8, 1), L(10, 4)



Practice

 Plot each set of ordered pairs on the coordinate grid.
Join the points in order.
Join the last point to the first point.
Name each polygon you have drawn.
A: (8, 6), (6, 6), (6, 8), (8, 8)

B: (0, 3), (4, 0), (6, 0), (2, 3)

C: (1, 6), (1, 10), (4, 10), (4, 6)

D: (7, 1), (6, 3), (8, 5), (10, 3), (9, 1)

 Plot 6 points on the grid. Label the points A to F. Record the ordered pairs.

A:	В:
C:	D:
E:	F:

Stretch Your Thinking

(2, 5) and (7, 5) are 2 vertices of a parallelogram with area 10 square units.Plot the points for the 2 given vertices.What are the coordinates of the other vertices?Give as many answers as you can.









Drawing the Graph of a Pattern



Try These

1. Henry made this pattern.



a) Complete the table.

Figure Number	Number of Squares	Ordered Pair
1	2	(1, 2)

b) Graph the pattern



Practice

1. a) Describe the relationship shown
in the table.Figure NumNumber of S

Figure Number	1	2	3	4	5
Number of Squares	1	3	5	7	9

b) Draw squares on the grid to model the pattern.



- c) Graph the pattern.
- **d)** How many squares are needed for Figure 10?
- e) Which figure has 29 squares?
- **f)** Which figure has 51 squares?

Number of Squares

2. Draw a pattern to model the data in the table.

Figure Number	1	2	3	4
Number of Triangles	1	2	4	8

Stretch	Your	Thinking	
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Use the table in question 2.

How many triangles are in Figure 10? _____

Which figure has 8192 triangles? _____