

Plotting Pictures

Instructions

Plotting Pictures has been designed to provide students with practice in graphing ordered pairs in a fun and effective manner. There are 3 levels:

- **Level 1: Beginner** - for students just learning how to plot points. Pictures are made using a 10x10 grid, Quadrant I only.
- **Level 2: Intermediate** - for students familiar with or learning the 4 individual quadrants. Pictures are made using a 20x20 grid in each individual quadrant.
- **Level 3: Advanced** - for students familiar with all 4 quadrants. Pictures are made using a 40x40 grid in all 4 quadrants together.

Provide each student with a copy of the desired worksheet. Students should plot each point listed and connect them with lines in the order they are given. When they come to the STOP sign, it is time to start a new line. In some pictures, students are instructed to shade parts of the figure. This should be done after the STOP sign is reached and the figure is closed.

Alternate Instructions

To conserve paper, worksheets can be projected onto a screen. Students can use regular graph paper, or you may use any of the graph paper options provided in the following pages.

Look! Up in the Sky!

1

Level 1

Quadrant 1

Plot each point. Draw lines between the points in each set, connecting them in the order they are given. Connect the points in each set until you come to the word STOP.

2,0

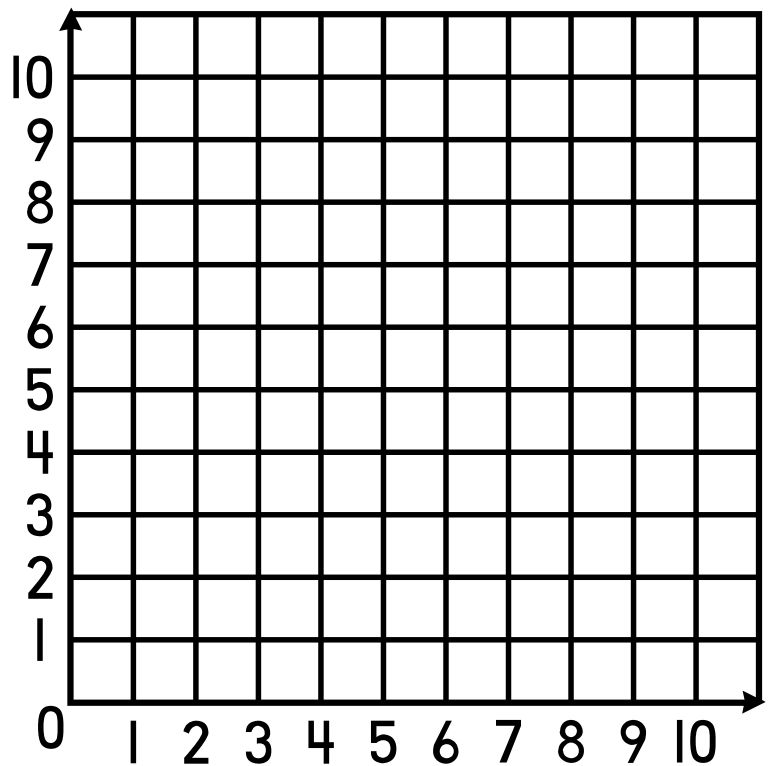
5,9

8,0

0,6

10,6

2,0



ANSWER KEY

Look! Up in the Sky!

1

Level 1

Quadrant 1

Plot each point. Draw lines between the points in each set, connecting them in the order they are given. Connect the points in each set until you come to the word STOP.

2,0

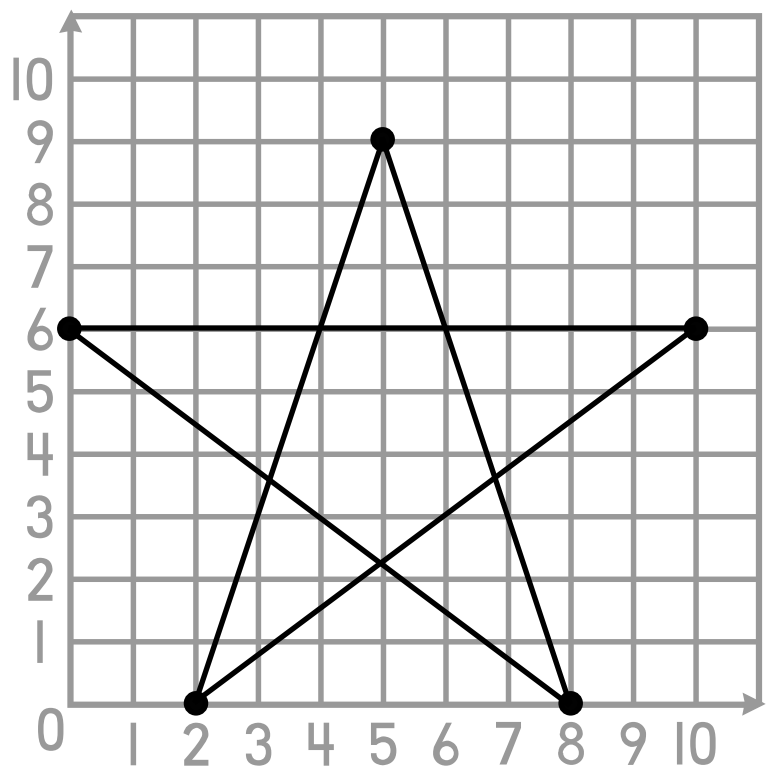
5,9

8,0

0,6

10,6

2,0









Ever Have a Bad Day?

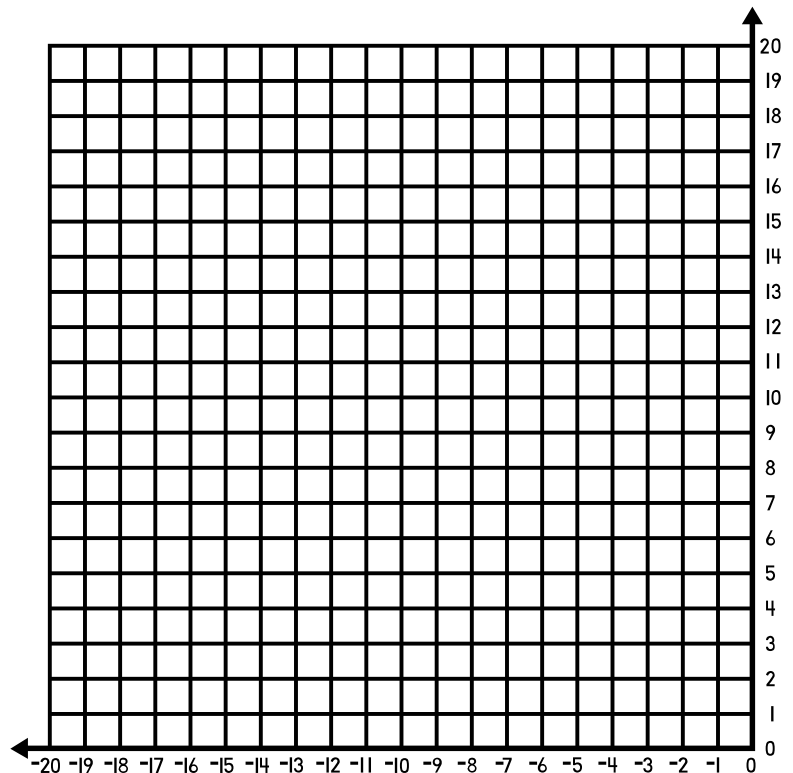
9-11

Level 2

Quadrant 2

Plot each point. Draw lines between the points in each set, connecting them in the order they are given. Connect the points in each set until you come to the word STOP.

- | | | |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| -12,9 | -7,9 | -12,19 |
| -16,9 | -3,9 | -11,18 |
| -16,13 | -3,13 | -11,17 |
| -12,13 | -7,13 | -14,17 |
| -12,10 | -7,10 | -18,16 |
| -15,10 | -4,10 | -18,5 |
| -15,12 | -4,12 | -15,2 |
| -13,12 | -6,12 | -11,1 |
| -13,11 | -6,11 | -8,1 |
| -14,11 | -5,11 | -4,2 |
|  |  | -1,5 |
| -10,10 | -15,4 | -1,16 |
| -11,7 | -13,3 | -5,17 |
| -10,6 | -12,4 | -11,17 |
| -9,6 | -10,3 |  |
| -8,7 | -9,4 | -7,19 |
| -9,10 | -8,3 | -8,18 |
|  | -7,4 | -8,17 |
| | -5,3 |  |
| | -4,4 |  |



ANSWER KEY







Ever Have a Bad Day?

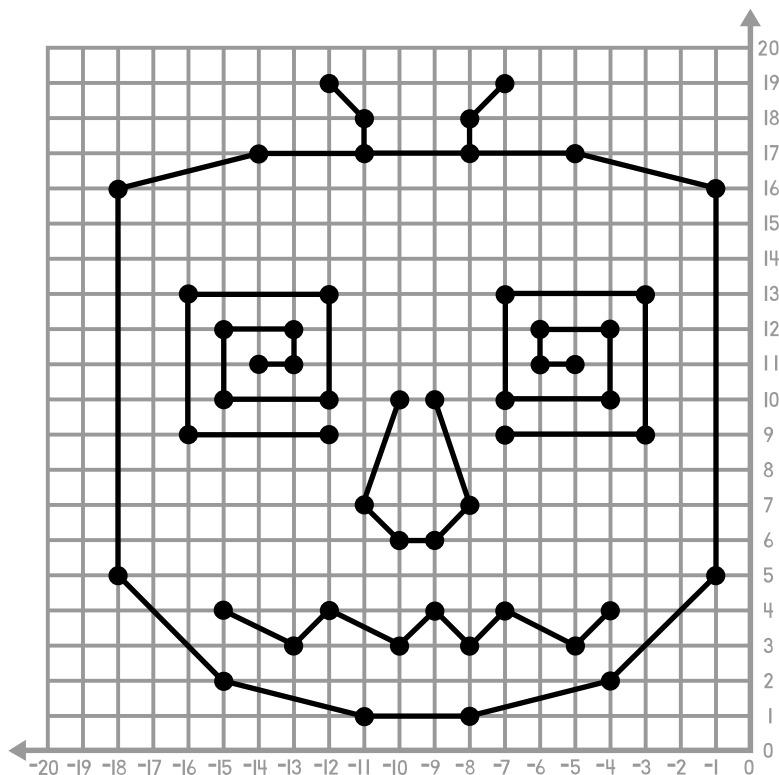
9-11

Level 2

Quadrant 2

Plot each point. Draw lines between the points in each set, connecting them in the order they are given. Connect the points in each set until you come to the word STOP.

- | | | |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| -12,9 | -7,9 | -12,19 |
| -16,9 | -3,9 | -11,18 |
| -16,13 | -3,13 | -11,17 |
| -12,13 | -7,13 | -14,17 |
| -12,10 | -7,10 | -18,16 |
| -15,10 | -4,10 | -18,5 |
| -15,12 | -4,12 | -15,2 |
| -13,12 | -6,12 | -11,1 |
| -13,11 | -6,11 | -8,1 |
| -14,11 | -5,11 | -4,2 |
|  |  | -1,5 |
| -10,10 | -15,4 | -1,16 |
| -11,7 | -13,3 | -5,17 |
| -10,6 | -12,4 | -11,17 |
| -9,6 | -10,3 |  |
| -8,7 | -9,4 | -7,19 |
| -9,10 | -8,3 | -8,18 |
|  | -7,4 | -8,17 |
| | -5,3 |  |
| | -4,4 |  |

















Octo-Man!

10

Level 3

Plot each point on a sheet of graph paper. Draw lines between the points in each set, connecting them in the order they are given. Connect the points in each set until you come to the word **STOP**.

-12,9	-12,7	14,7	-8,10	-8,-1
-5,16	-14,9	16,9	-5,13	-3,-6
7,16	-16,9	18,9	-3,13	5,-6
14,9	-18,7	20,7		10,-1
14,-3	-18,4	20,4		
7,-10	-16,2	18,2		
-5,-10	-14,2	16,2		
-12,-3	-12,4	14,4	10,10	
-12,9			7,13	3,-12
			5,13	7,-11
				8,-13
	-6,11	5,11		7,-16
	-5,12	6,12		3,-14
-4,5	-4,12	7,12	-1,-12	
-1,8	-3,11	8,11	0,-11	
3,8	-3,10	8,10	2,-11	
6,5	-4,9	7,9	3,-12	-1,-12
6,1	-5,9	6,9	3,-14	-5,-11
3,-2	-6,10	5,10	2,-15	-6,-13
-1,-2	-6,11	5,11	0,-15	-5,-16
-4,1			-1,-14	-1,-14
-4,5			-1,-12	
				
	9,0	-9,-2		
	11,-2	-7,0		
				

ANSWER KEY

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10

Level 3

Plot each point on a sheet of graph paper. Draw lines between the points in each set, connecting them in the order they are given. Connect the points in each set until you come to the word **STOP**.

