Answer Key • Lesson 1: Using Coordinates

Student Guide

Using Coordinates (SG pp. 324–326)

See discussion in the lesson.

Ouestions 1–3

- **I**.* The globe is 3 steps to the left of and 1 step in front of the wastebasket. It is 2 steps to the right of and 6 steps behind the desk.
- **2.*** The globe is 5 steps to the right of and 4 steps in front of Mr. Origin.

3.*(5, 4)



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*Answers and/or discussion are included in the lesson.



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3.

Practice with Coordinates (SAB p. 465) Questions 1–3

•	Shape	Right x	Front y	(Right, Front) (x, y)
		1	5	(1, 5)
		4	0	(4, 0)
	*	2	1	(2, 1)
	▼	0	3	(0, 3)
	•	5	5	(5, 5)

2. Responses will vary.



Find the Panda (SAB p. 468) Questions 1–3

- I.* Possible response: Julia's second guess is a good guess because now she knows the coordinate for the x-axis so she only has to move forward to find the coordinate on the yaxis.
- **2.** Possible response: Since Julia is on the right place for the x-axis she only needs to find the location on the y-axis. She is already on 3 and since the panda is at (3,12) she will have to move forward from 8 to get to 12.
- **3.** Answers will vary. Students should realize that the coordinate for the x-axis will remain a 3 and should just change the coordinate for the y-axis. Possible student guesses can include (3,9), (3,10), (3,11), and (3,12).

Name		_ Date
Chris is the panda. He ch one of Professor Peabody records the guess on her	ooses 3 right, 12 fron y's helpers, guesses 7 game board and loca	t (3, 12) as his location. Julia, right, 8 front (7, 8). Julia tion table.
Chris records the guess of left and front to reach the	on his game board, too panda. So he says, "	b. He sees that Julia must go Go left and front."
Front 12	Panda's Game Board	Location
y 11		(Right, Front) (X, y)
		Panda (3, 12)
Go left and front.	• • • • •	Guess 1 (7, 8)
		Guess 2
500		Guess 3
		Guess 4
	+-+-+-+-+-+-+-+-+	Guess 5
		Guess 6
0	1 2 3 4 5 6 7 8 9 10 11 12 Right	
Julia guesses again. This Julia's game board. It sho	time she guesses 3 ri ows both of her guess	ght, 8 front (3, 8). Here is es.
	Helper's Game Board	Location
y 11		(Right, Front)
	+-+-+-+-+-+-+-+-+-+-+-+	Guess 1 (7.8)
		Guess 2 (3.8)
		Guess 3
		Guess 4
Julia 4		Guess 5
3 2 2		Guess 6
1 	1 2 3 4 5 6 7 8 9 10 11 12 Hight	
1 le lulis's second au	iess a good guess? H	ow did you decide?
1. 13 Julia 3 Second ge		
 Chris says, "Now g 	o front." Why does he	say this?
 Chris says, "Now g If you were playing what would be you 	o front." Why does he the game and did not r next guess?	say this? know where the panda was,

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