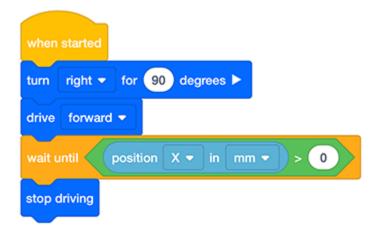
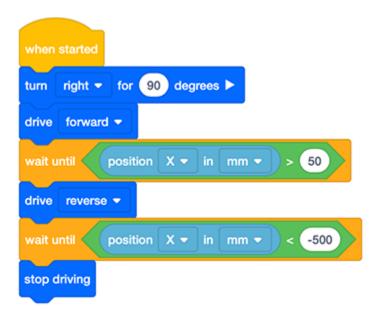
## Computer Science Level 1 - Blocks with VEXcode VR Course

Unit 6 - Lesson 2: Driving to a Set of Coordinates (X axis) Quiz



## 1. Which of the following describes how the VR Robot will move in this project on the Grid Map Playground?

- a. The VR Robot will turn right 90 degrees then drive forward until the Y position is less than zero. Then the VR Robot will stop driving.
- b. The VR Robot will turn right 90 degrees then drive forward until the X position is greater than zero. Then, the VR Robot will stop driving.
- c. The VR Robot will turn right 90 degrees then drive forward until the Y position is greater than zero. Then the VR Robot will stop driving.
- d. The VR Robot will turn right 90 degrees then will drive forward until the X position is less than zero. Then, the VR Robot will stop driving.



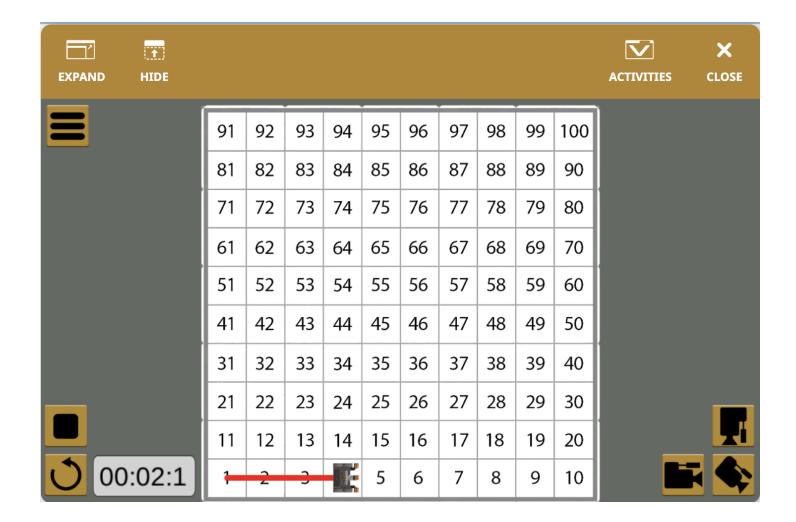
## 2. Which of the following describes how the VR Robot will move in this project on the Number Grid Playground?

- a. The VR Robot will turn right 90 degrees and drive forward until the X position is greater than 50. Then the VR Robot will drive in reverse until the X position is less than -500, then it will stop driving.
- b. The VR Robot will turn right 90 degrees and drive forward until the Y position is greater than 50. Then the VR Robot will drive in reverse until the Y position is less than -500, then it will stop driving.
- c. The VR Robot will turn right 90 degrees and drive forward until the X position is less than 50. Then the VR Robot will drive in reverse until the X position is greater than -500, then it will stop driving.
- d. The VR Robot will turn right 90 degrees and drive forward until the Y position is less than 50. Then the VR Robot will drive in reverse until the Y position is greater than -500, then it will stop driving.

91	92	93	94	95	- 9006	97	98	99	100
81	82	83	84	85	- 7006	87	88	89	90
71	72	73	74	75	- 5006	77	78	79	80
61	62	63	64	65	- 3006	67	68	69	70
51 -900	52 -700	53 -500	54 -300	55 -100	- 1006 100	57 300	58 500	59 700	60
41	42	43	44	45	- 106	47	48	49	50
31	32	33	34	35	3065	37	38	39	40
21	22	23	24	25	506	27	28	29	30
11	12	13	14	15	7005	17	18	19	20
1	2	3	4	5	900	7	8	9	10

## 3. What are the approximate coordinates for the number '33' on the Number Grid Map Playground?

- a. X: 1500 millimeters (mm)
  - Y: 500 millimeters (mm)
- b. X: 100 millimeters (mm)
  - Y: -300 millimeters (mm)
- c. X: 500 millimeters (mm)
  - Y: 300 millimeters (mm)
- d. X: -500 millimeters (mm)
  - Y: -300 millimeters (mm)



- 4. The coordinate location of the number '4' on the Numbered Grid Map Playground is X: -300 millimeters (mm) and Y: -900 millimeters (mm). What is the correct sequence of commands to code the VR Robot to drive from the number '1' to number '4?'
  - a. Turn right for 90 degrees, Drive forward, Wait until the Y position is greater than -300 millimeters (mm), Stop driving.
  - b. Turn right for 90 degrees, Drive forward, Wait until the X position is greater than -300 millimeters (mm), Stop driving.
  - c. Turn right for 90 degrees, Drive forward, Wait until the X position is greater than -900 millimeters (mm), Stop driving.
  - d. Turn right for 90 degrees, Drive forward, Wait until the Y position is greater than -900 millimeters (mm),
    Stop driving.