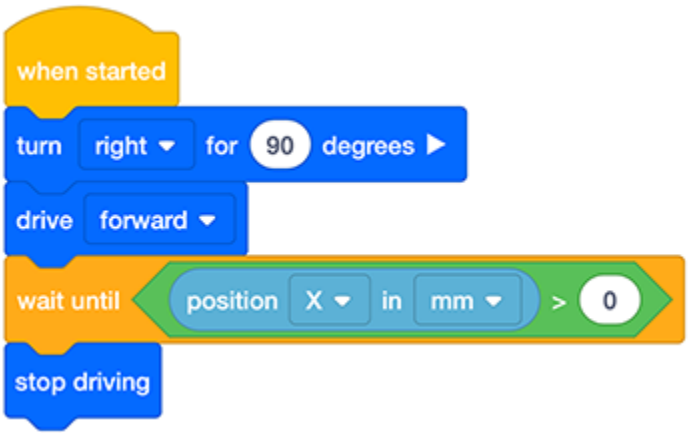
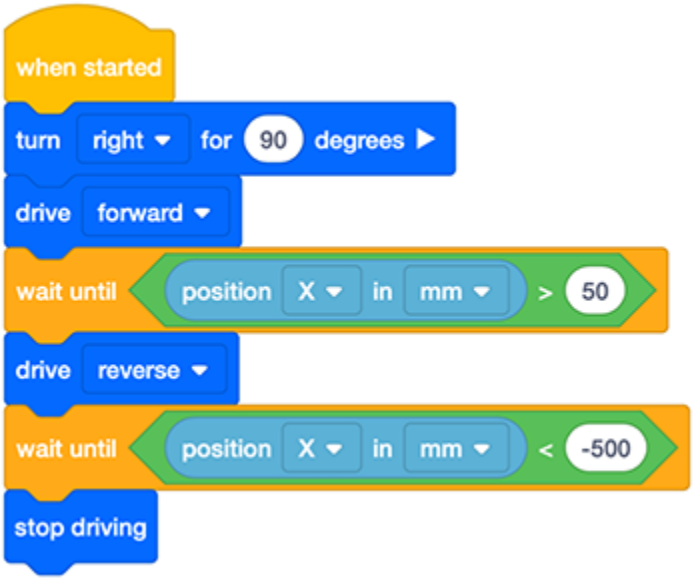
Name: _____ **Date:** _____

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.



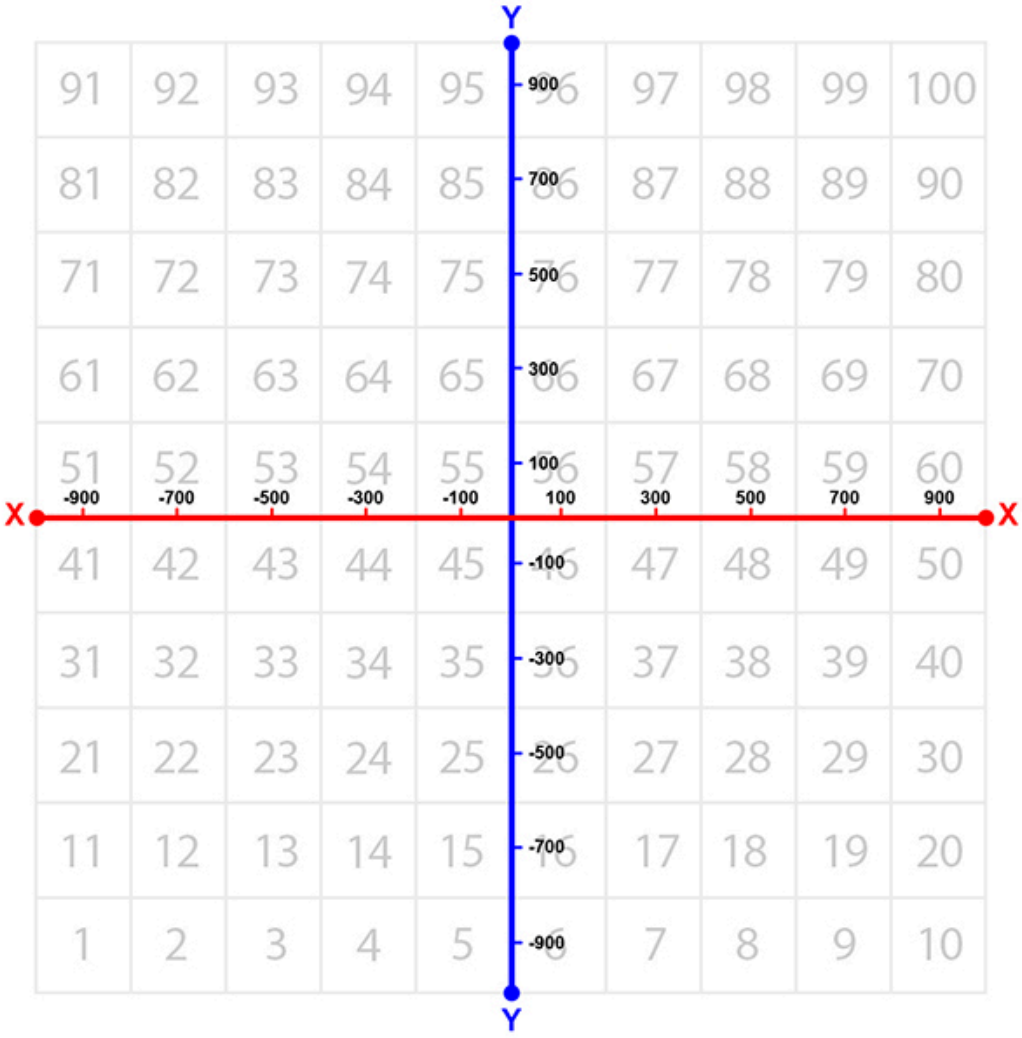
2. Which of the following describes how the VR Robot will move in this project on the Number Grid Playground?

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.



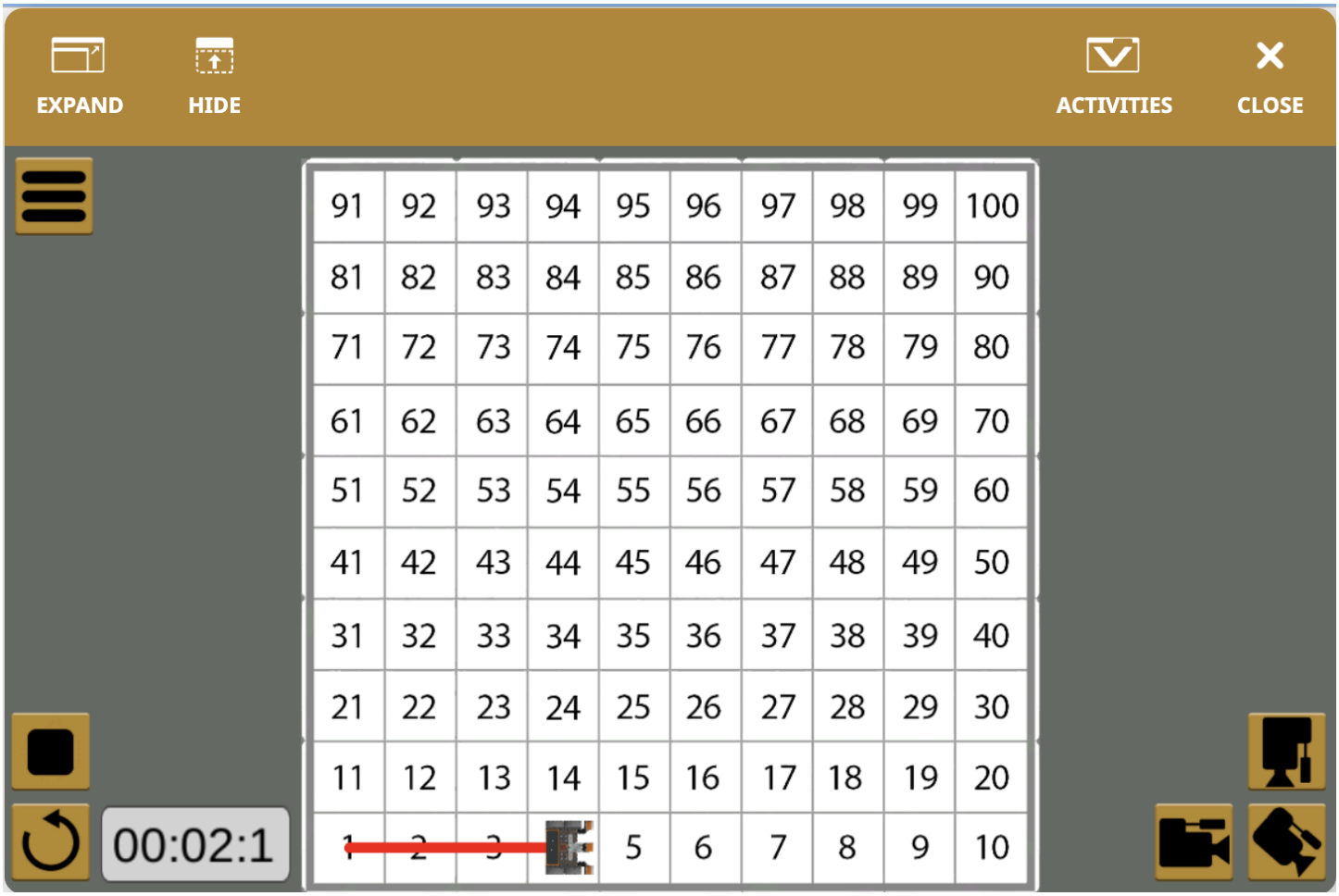
3. What are the approximate coordinates for the number '33' on the Number Grid Map Playground?

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.
