

# EXPLORING THE CARTESIAN COORDINATE PLANE

GRADE 8 MATHEMATICS

PAIR MEMBERS: \_\_\_\_\_ SECTION: \_\_\_\_\_ DATE: \_\_\_\_\_

## CAMPUS WAYFINDING CHALLENGE

At Foundation University North Campus, start at the Main Entrance Gate (the origin).

On this simplified grid, east is right (+x) and north is up (+y).

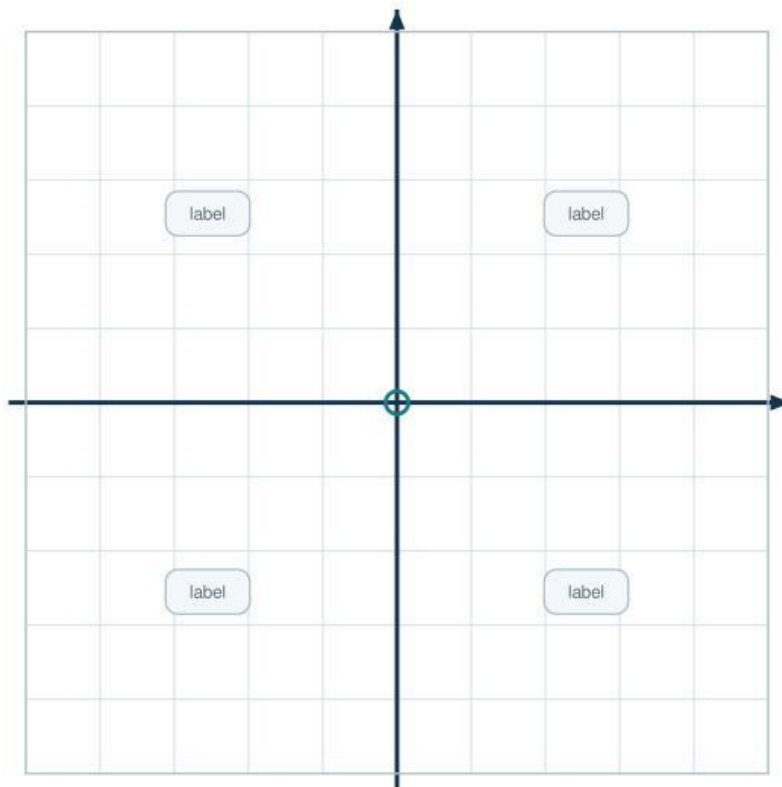
The High School Building is 3 units east and 2 units north of the gate. Locate it.

*Classroom diagram; not to scale.*

## WORK WITH YOUR PARTNER

Partner A reads the route. Partner B completes the grid. Then switch roles and check the labels.

1 square = 1 unit. Label the axes, mark origin O, label the quadrants, and mark the High School Building H.



*Write x-axis and y-axis at the arrow ends. Put O at the gate, label each quadrant, and plot H.*

## TELL HOW YOU KNOW

1. The ordered pair for H is: ( \_\_\_\_\_ , \_\_\_\_\_ ) It is in Quadrant: \_\_\_\_\_

2. How do the axes, origin, and quadrants help a person locate a place?

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*Simplified campus-based learning diagram; not to scale.*