

Garden Map Detectives

Read map clues, then use them to locate places and measure distance.

4.20.A “apply mapping elements, including grid systems, legends, symbols, scales, and compass roses, to create and interpret maps; and”

NAME _____

DATE _____

1 READ AND MARK _____ Read it twice

YOUR JOB Underline each clue that tells how to find or measure a place. Circle the names of the mapping elements that help visitors use the garden map.

A Map for the Garden

- ① Ms. Chen’s class made a map of the school garden so visitors could find places safely. A compass rose shows north at the top, east on the right, south at the bottom, and west on the left. The map uses a grid. Letters A through D label columns from left to right, and numbers 1 through 4 label rows from top to bottom.
- ② The map’s legend gives each place a symbol. A circle stands for the fountain at B2, a square stands for the tool shed at D1, and a triangle stands for the bench at C3. A diamond marks the compost bins at A3. The scale says 1 centimeter on the map equals 5 meters in the real garden.
- ③ Visitors enter through the gate at A4. To reach the fountain, they move northeast from the gate to B2. To reach the shed after visiting the fountain, they move northeast again to D1, although they may need to follow the path around flower beds. The class checks the legend, grid, compass rose, and scale before sharing the map.

2 ANSWER WITH EVIDENCE Use the passage

1 According to the compass rose, which direction is on the right side of the map?

2 A visitor walks from the fountain at B2 to the bench at C3. In which direction does the visitor travel?

3 A path measures 3 centimeters on the map. How many meters is the path in the real garden?

4 What symbol and grid location show the compost bins?

3 YOUR TURN Your own words

Draw a map of an imaginary place in the box. Include a 3-by-3 grid, a compass rose, a legend with at least three symbols, a scale, and three labeled places. Then write one sentence that gives directions from one grid location to another.

PART 1 • READ AND MARK

Underline each clue that tells how to find or measure a place. Circle the names of the mapping elements that help visitors use the garden map. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	According to the compass rose, which direction is on the right side of the map?	east
2	A visitor walks from the fountain at B2 to the bench at C3. In which direction does the visitor travel?	southeast
3	A path measures 3 centimeters on the map. How many meters is the path in the real garden?	15 meters
4	What symbol and grid location show the compost bins?	A diamond at A3.

PART 3 • YOUR TURN (SAMPLE ANSWER)

Sample map: Use a 3-by-3 grid with letters A through C across and numbers 1 through 3 down. Put a star for a playground at B2, a circle for a pond at C3, and a square for a picnic area at A1. Include a legend, a compass rose with north at the top, and a scale of 1 centimeter equals 10 meters. From the playground at B2, walk southeast to the pond at C3.

Accept equivalent direction words and correct calculations using the stated scale. For the student map, check that the grid, compass rose, legend, symbols, scale, and direction sentence agree with one another.