

Standard #: MA.5.G.5.1 Archived Standard

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Identify and plot ordered pairs on the first quadrant of the coordinate plane.

Grade: 5

Supporting Idea: [Geometry and Measurement](#) - Geometry and Measurement

Date Adopted or Revised: 09/07

Content Complexity Rating: [Level 1: Recall](#) - [More Information](#)

Date of Last Rating: 06/07

Status: State Board Approved - Archived

Assessed: Yes

TEST ITEM SPECIFICATIONS

Item Type(s): This benchmark may be assessed using: [MC](#) item(s)

N/A

Clarification :

Students will identify the ordered pair that describes the location of a point on a coordinate plane.

Students will identify the point on a coordinate plane that corresponds to a given ordered pair.

Students may identify the location of a point on a coordinate plane that is equidistant from two points.

Items will not include finding a specific distance between points.

Students will describe the horizontal and vertical movements necessary to get from one point to another on a coordinate plane.

Content Limits :

Items may include the following terms: coordinates, coordinate plane, ordered pairs, midpoint, x-axis and y-axis, but items will not assess the vocabulary of these terms.

Stimulus Attributes :

All x- and y-coordinates must be whole numbers.

Coordinate grids may have the x- and y-axes labeled.

Coordinate grids may have arrows at the end of each axis.

Items including the use of compass directions must include a compass rose.

All coordinate grids must use a scale of one unit.

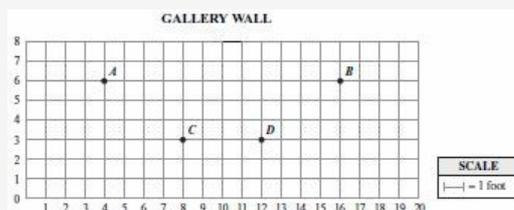
Items may be set in either a real-world or a mathematical context.

Graphics should be used in all these items.

SAMPLE TEST ITEMS (1)

Test Item #: [Sample Item 1](#)

Question: The letters on the coordinate grid below represent the locations of paintings hanging on a wall of an art gallery.



The manager wants to hang another painting exactly halfway between points A and B.

Which ordered pair best describes the location of the new painting?

Difficulty: N/A

Related Resources

Lesson Plan

Name	Description
Cartesian Classroom:	The classroom is turned into a human Cartesian coordinate plane, thereby introducing students to the characteristics of the Cartesian coordinate system.
Graphing points on the coordinate plane.:	This lesson introduces students to the coordinate plane practice plotting and locating points in Quadrant 1 of a coordinate system. It also introduces the vocabulary, such as axes, origin, etc...
What Is Your Point?:	In this game, a student challenges a partner to recreate his or her quadrilateral or other shape on a geoboard by calling out the ordered pairs of the quadrilateral's vertices.

Educational Software / Tool

Name	Description
Free Graph Paper:	A variety of graph paper types for printing, including Cartesian, polar, engineering, isometric, logarithmic, hexagonal, probability, and Smith chart.

Educational Game

Name	Description
Maze Game:	In this activity, students enter coordinates to make a path to get to a target destination while avoiding mines. This activity allows students to explore Cartesian coordinates and the Cartesian coordinate plane. This activity includes supplemental materials, including background information about the topics covered, a description of how to use the application, and exploration questions for use with the java applet.

Student Resources

Name	Description
Maze Game:	In this activity, students enter coordinates to make a path to get to a target destination while avoiding mines. This activity allows students to explore Cartesian coordinates and the Cartesian coordinate plane. This activity includes supplemental materials, including background information about the topics covered, a description of how to use the application, and exploration questions for use with the java applet.