

Grade 6 - The Coordinate Plane and Polygons - Test

Common Core 6.NS.C.6b, 6.NS.C.6c, 6.NS.C.8, 6.G.A.3 · maths-pdf.fr/en/

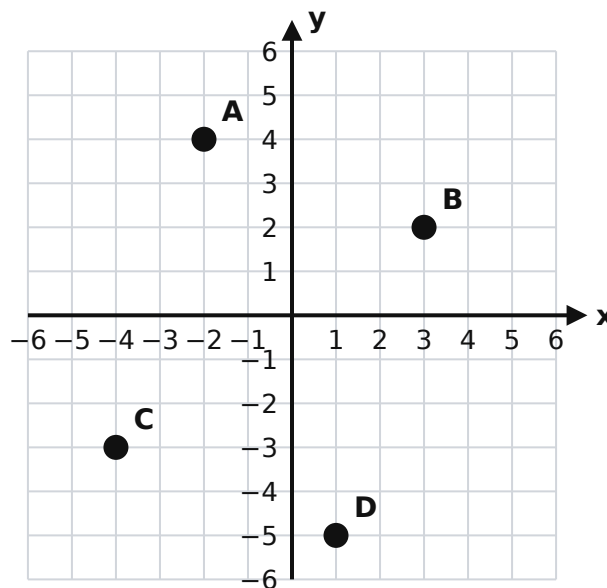
Name: _____ Class: _____ Date: ____/____/____

This 45-minute test has 9 questions worth 20 points. It covers ordered pairs, quadrants, reflections, distances, and polygons on the coordinate plane (Common Core 6.NS.C and 6.G.A.3). Show your work.

About this test

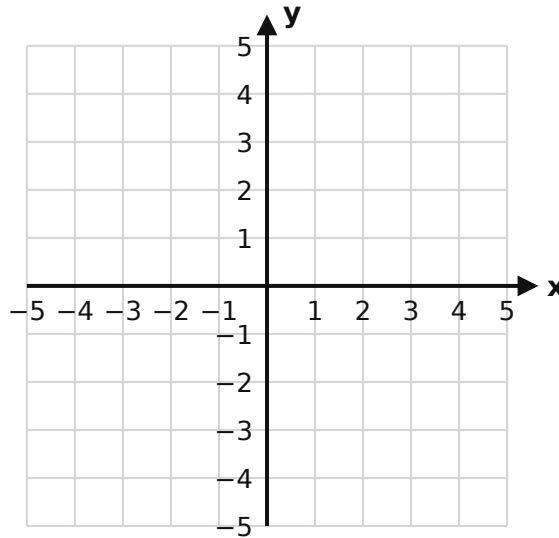
- Grade: Grade 6
- Chapter: The Coordinate Plane and Polygons
- Standards: 6.NS.C.6b, 6.NS.C.6c, 6.NS.C.8, 6.G.A.3
- Time: 45 minutes
- Total: 20 points

Question 1 - Name the points [2 pts]



Points A, B, C, and D.

Write the ordered pair for each point and name its quadrant.

Question 2 - Plot points [2 pts]

Coordinate plane.

Plot the points $(-3, 2)$, $(0, -4)$, and $(4, 0)$.

Question 3 - Reflections [2 pts]

- a. Reflect $(5, -3)$ across the x-axis.
- b. Reflect $(-2, -7)$ across the y-axis.

Question 4 - Distance [2 pts]

- a. Find the distance between $(-6, 4)$ and $(-6, -3)$.
- b. Find the distance between $(-5, -2)$ and $(4, -2)$.

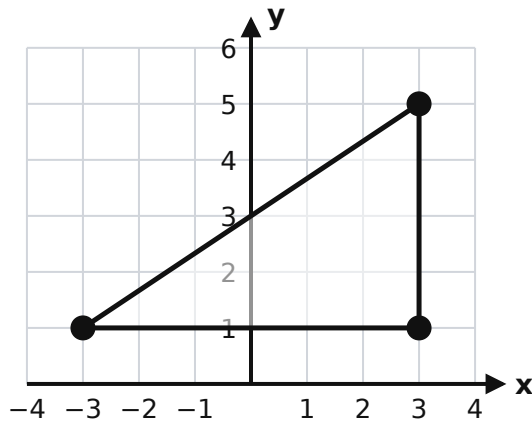
Question 5 - Rectangle [2 pts]

A rectangle has vertices $(-5, 2)$, $(3, 2)$, $(3, -1)$, and $(-5, -1)$. Find the perimeter and area.

Question 6 - Missing vertex [2 pts]

Three vertices of a rectangle are $(-3, -2)$, $(-3, 4)$, and $(2, 4)$. Find the fourth vertex.

Question 7 - Triangle area [3 pts]



A triangle.

A triangle has vertices $(-3, 1)$, $(3, 1)$, and $(3, 5)$. Find the length of the base, the height, and the area.

Question 8 - Map problem [3 pts]

A map uses a grid where each unit is 1 mile. Town A is at $(-4, 2)$, Town B is at $(3, 2)$, and Town C is at $(3, -5)$. Find the distance from A to B and from B to C. How far is the trip A to B to C?

Question 9 - Reflect a polygon [2 pts]

Rectangle R has vertices $(1,1)$, $(4,1)$, $(4,3)$, and $(1,3)$. Reflect it across the x-axis, then give the vertices of the new rectangle and name its quadrant.