

Common Core Standards - Resource Page

The resources below have been created to assist teachers' understanding and to aid instruction of this standard.

Domain	Standard: G.GPE.7 - Use coordinates to compute perimeters of polygons and areas of triangles and rectangles, e.g., using the distance formula. *(Modeling Standard)
<p><u>Expressing Geometric Properties with Equations</u> Use coordinates to prove simple geometric theorems algebraically</p>	<p><u>Questions to Focus Learning</u> How can areas and perimeters of polygons be found using coordinate geometry?</p> <p>Areas and perimeters of polygons on a coordinate plane can be found by using coordinate geometry.</p> <p><u>Student Friendly Objectives</u> <i>Reasoning Targets</i></p> <p>I can use the distance formula to find the length of a side of a polygon on a coordinate plane. I can use the Pythagorean Theorem to find the length of a side of a triangle on a coordinate plane. I can find the perimeter of a polygon on a coordinate plane. I can find the area of a triangle and a rectangle on a coordinate plane.</p> <p><u>Vocabulary</u></p> <p>area area formulas coordinate plane distance formula perimeter Pythagorean Theorem</p> <p><u>Teacher Tips</u> G.GPE.7 provides practice with the distance formula and a connection with the Pythagorean theorem.</p> <p><u>Vertical Progression</u></p>

The above information and more can be accessed for free on the [Wiki-Teacher](http://www.wiki-teacher.com) website.

Direct link for this standard: [G.GPE.7](http://www.wiki-teacher.com/G.GPE.7)