| MAFS.912.G-GPE.2.7	Use coordinates to compute perimeters of polygons and areas of triangles and rectangles, e.g., using the distance formula.
Item Types	Equation Editor – May require identifying the perimeter of a polygon or the area of a triangle or a rectangle. Multiple Choice – May require selecting from choices.
Clarifications	Students will use coordinate geometry to find a perimeter of a polygon. Students will use coordinate geometry to find the area of triangles and rectangles.
Assessment Limits	Items may require the use of the Pythagorean theorem. Items may include convex, concave, regular, and/or irregular polygons. In items that require the student to find the area, the polygon must be able to be divided into triangles and rectangles.
Stimulus Attribute	Items must be set in a real-world context.
Response Attributes	Items may require the student to apply the basic modeling cycle. Items may require the student to use or choose the correct unit of measure. Items may require the student to find a dimension given the perimeter or area of a polygon.
Calculator	Neutral

Sample Item	Item Type
	Equation Editor

Polygon *ABCDE* is shown on the coordinate grid.
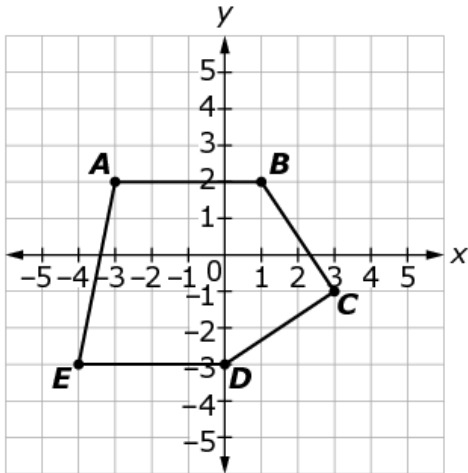
What is the perimeter, to the nearest hundredth of a unit, of polygon *ABCDE*?

1	2	3
4	5	6
7	8	9
0	.	-