**Triangles – Part 1**
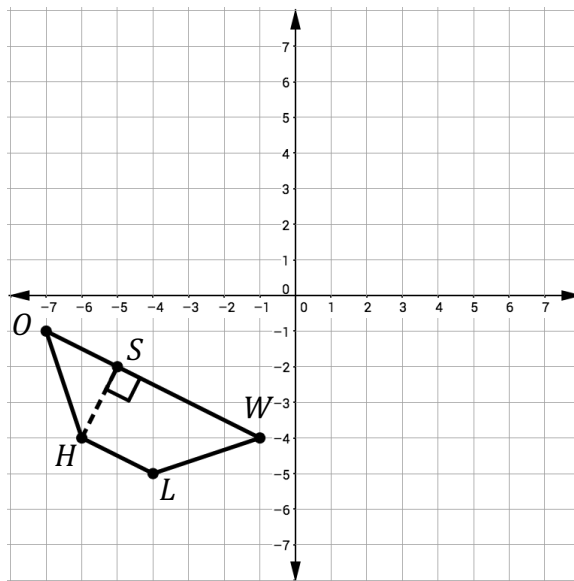**Area and Perimeter in the Coordinate Plane – Part 2**
**Independent Practice**

1. Find the area of the trapezoid $HOWL$ plotted below. Round your answer to the nearest hundredth.



2. Triangle $SBA$ has coordinates $S(15, -8)$, $B(-2, 21)$, and $A(0,0)$. If the height of the triangle for the corresponding base $\overline{SB}$ is 8.89 units, then determine the perimeter and area of $\triangle$ $SBA$. Round your answer to the nearest unit.
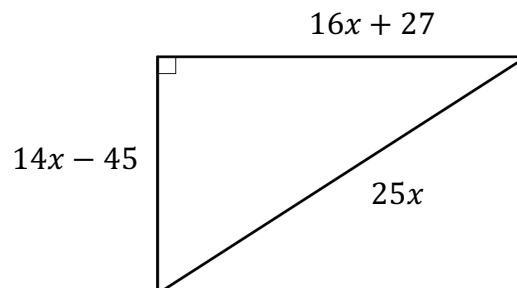
3. Consider △ $OPD$ in the coordinate system below.
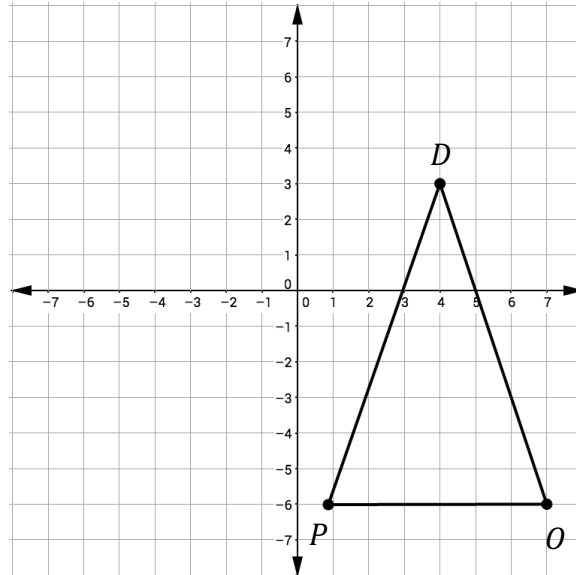


*Part A:* Find the approximate perimeter of the isosceles triangle △ $OPD$. Round your answer to the nearest hundredth.

*Part B:* If each block is equal to $25ft^2$, then determine the area of △ $OPD$.

4. Consider the right triangle below.

If the perimeter is 1013 units, find the value of $x$ and the area of the triangle.



$16x + 27$

$14x - 45$

$25x$

The value of $x$ is _____.

The area is _____ square units.