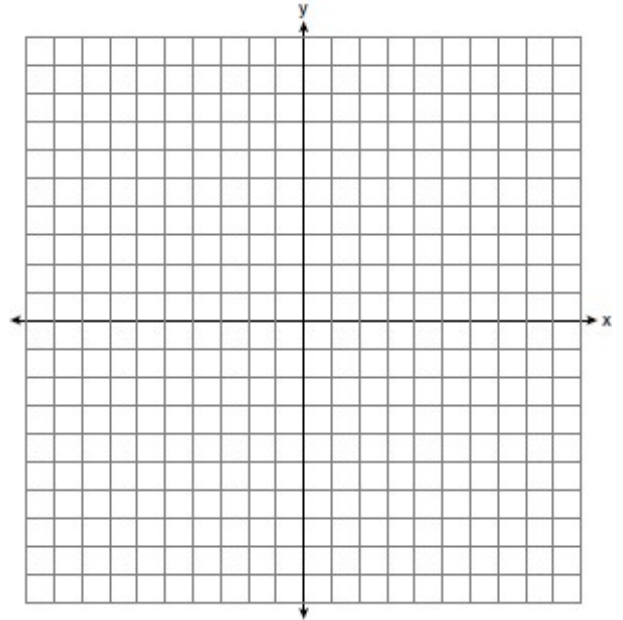


Name _____
Mr. Schlansky

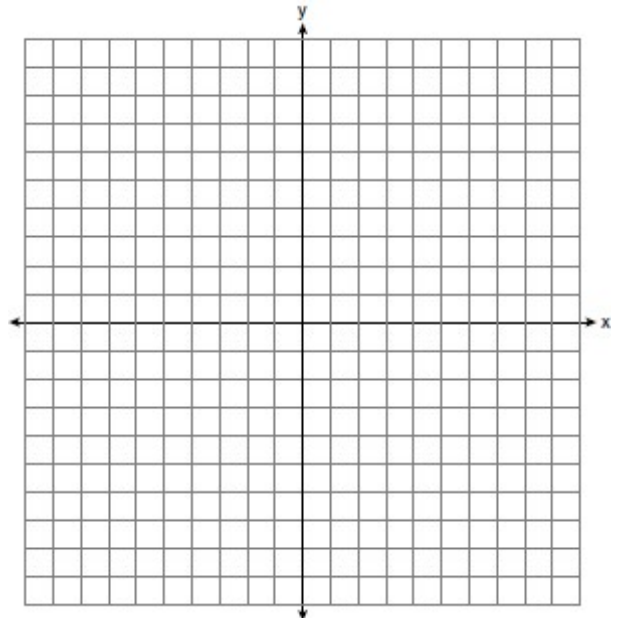
Date _____
Geometry

Perimeter with Coordinate Geometry

1. Triangle JOY has vertices $J(4,0)$, $O(5,4)$ and $Y(1,5)$.
Find the perimeter of triangle JOY.

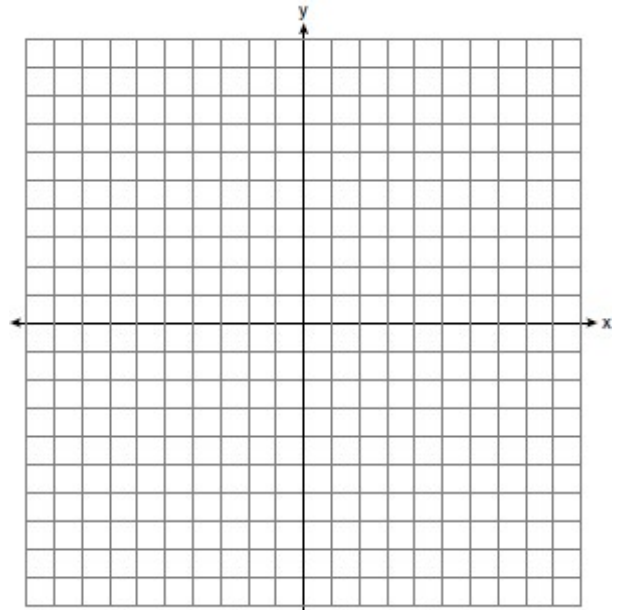


2. Find the perimeter of an equilateral triangle whose side has endpoints $(4,2)$ and $(7,5)$.



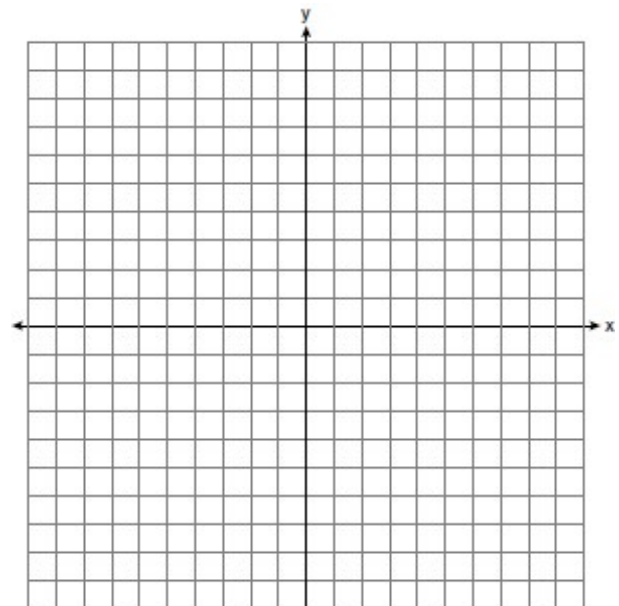
3. Rhombus $STAR$ has vertices $S(-1, 2)$, $T(2, 3)$, $A(3, 0)$, and $R(0, -1)$. What is the perimeter of rhombus $STAR$?

- 1) $\sqrt{34}$
- 2) $4\sqrt{34}$
- 3) $\sqrt{10}$
- 4) $4\sqrt{10}$



4. The endpoints of one side of a regular pentagon are $(-1, 4)$ and $(2, 3)$. What is the perimeter of the pentagon?

- 1) $\sqrt{10}$
- 2) $5\sqrt{10}$
- 3) $5\sqrt{2}$
- 4) $25\sqrt{2}$



5. The vertices of square $RSTV$ have coordinates $R(-1, 5)$, $S(-3, 1)$, $T(-7, 3)$, and $V(-5, 7)$. What is the perimeter of $RSTV$?

- 1) $\sqrt{20}$
- 2) $\sqrt{40}$
- 3) $4\sqrt{20}$
- 4) $4\sqrt{40}$

