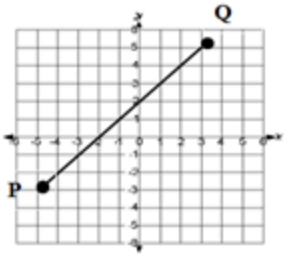
On Level Geometry Examples:

_____ 20. What would be the coordinates of a point that is ¾ the distance from P to Q?



For problems #18-20, identify each set of lines as parallel, perpendicular, or neither

_____ 17. $y = 3x + 6$ and $-6x + 2y = 2$

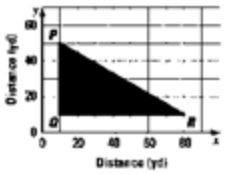
_____ 18. $3x - 4y = 8$ and $\frac{4}{3}x + y = 8$

PAP Geometry Examples:

1. As shown, a path goes around a triangular park.

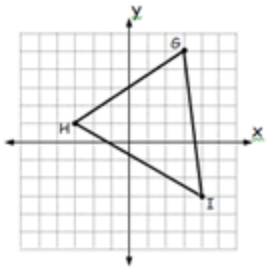
a) Find the distance around the park to the nearest yard.

b) A new path and a bridge are constructed from point Q to the midpoint M of $\overline{PR}$. Find QM to the nearest yard.



C) There is a rock blocking the path at point D located approximately at (30,38.57). What fractional distance is the rock located from P to R?

15. Using the triangle shown at the right:



a. Find the **perpendicular** slope of each of the segments below:

$\overline{GH}$: _____ $\overline{HI}$: _____

b. Find the midpoint of each segment shown below.

Midpoint of $\overline{GH}$= (_____) Midpoint of $\overline{HI}$ = (_____)

c. Write the equation for the perpendicular bisector of $\overline{GH}$.