

DECEMBER
2015

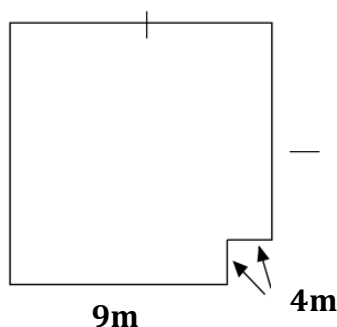
DEPARTMENT OF MATHEMATICS

PROBLEM SOLVING CHALLENGE

Q1.

Junior Cycle

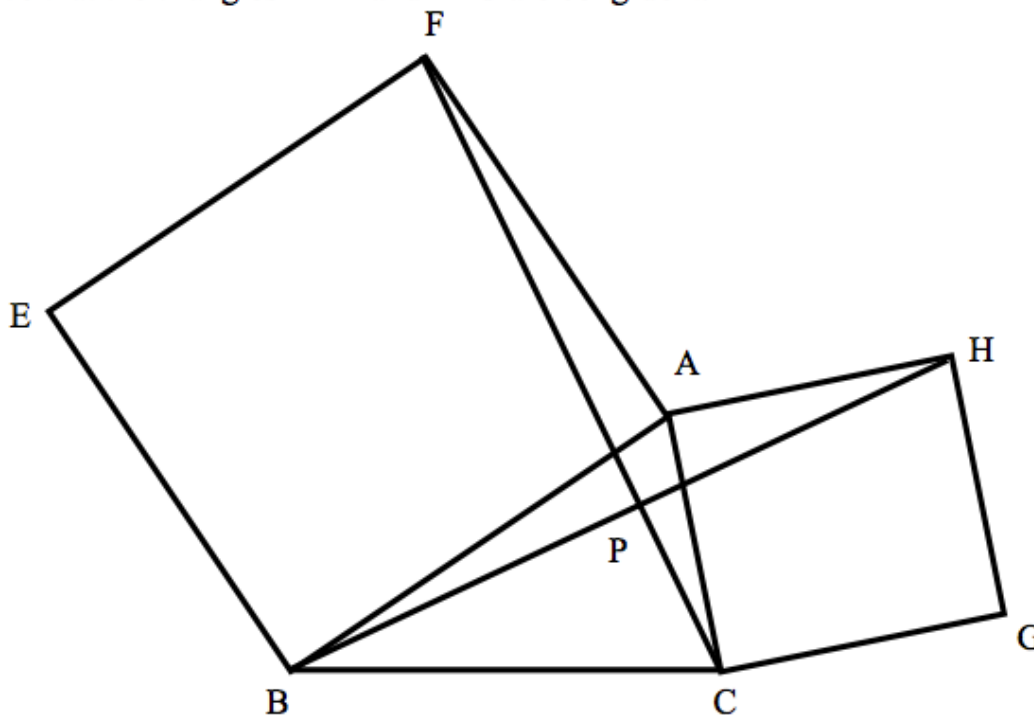
In the diagram, a garden is enclosed by six straight fences. If the area of the garden is $168m^2$, what is the length of the fence around the garden?



Q2.

Senior Cycle

In the diagram below, ABEF and ACGH are squares. BH and CF meet at P. Prove that the triangles ABH and AFC are congruent.



Answers on an A4 sheet with your Name, Year and Class should be handed into the office or given to Mr. McEvoy before 4pm on Friday 18th of December

Monthly Prize for both **Junior** and **Senior** Cycle.*

Good Luck.

Junior Cycle students answer question 1 only.

Senior Cycle students answer question 2 only