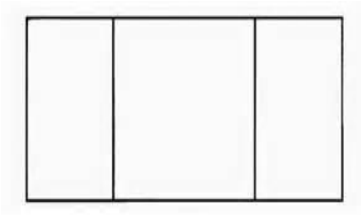
MPM 1D

DETERMINING OPTIMUM AREA

EXAMPLE:

80 metres of fence are used to enclose a rectangular area of land, and divide the rectangle into 3 smaller rectangular areas, as shown.



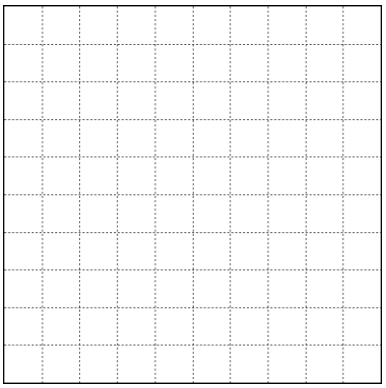
- What dimensions (length and width) should be used to create the largest area?

- ***Equation:*** _____

- ***Table of values:***

rectangle	length	width	area
1			
2			
3			
4			
5			

- ***Graph:***



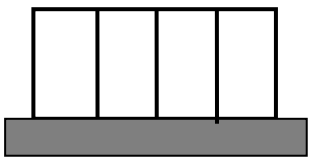
- ***What dimensions (length and width) should be used to create the maximum area?***

EXERCISE:

Using 80 metres of fencing, what dimensions of the rectangle will produce the maximum area for each shape?

1.

2.



Answers: 1) 20m by 40m; 2) 8m by 40m