

SOLUTIONS => Maximum AREA
WORKSHEET #1



Perimeter = 600 m
Let x = width

Then $\frac{600-2x}{2}$ = length
 $\Rightarrow 300-x$ = length

Therefore: Area = length x width
 $A = (300-x)(x)$

C

Mar 16-8:11 AM

2.



Perimeter = 1000 m
Let x = width

Then $1000-2x$ = length

Therefore: Area = length x width
 $A = (1000-2x)(x)$

B

Mar 16-8:11 AM

3.



Perimeter = 1800 m
Let x = width

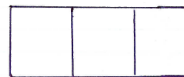
Then $1800-3x$ = length

Therefore: Area = length x width
 $A = (1800-3x)(x)$

A

Mar 16-8:12 AM

4.



Perimeter = 2000 m
Let x = width

Then $\frac{2000-4x}{2}$ = length

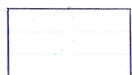
$\Rightarrow 1000-2x$ = length

Therefore: Area = length x width
 $A = (1000-2x)(x)$

D

Mar 16-8:12 AM

5.



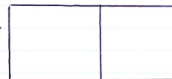
Perimeter = 800 m
Let x = width

Then $800-2x$ = length

Therefore: Area = length x width
 $A = (800-2x)(x)$

Mar 16-8:12 AM

6.



Perimeter = 900 m
Let x = width

Then $\frac{900-3x}{2}$ = length

$\Rightarrow \frac{1}{2}(900-3x)$ = length

Therefore: Area = length x width
 $A = \frac{1}{2}(900-3x)(x)$

$A = \frac{1}{2}x(900-3x)$

Mar 16-8:12 AM