***3.MD.8: Solve real world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length, and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters.***

***SMP3 Construct viable arguments and critique the reasoning of others***

***SMP7 Look for and Make Use of Structure***

* I can find the maximum area of a rectangular figure given its perimeter. (with whole number sides)

Ms. Brown’s class will raise rabbits for their spring science fair. They have 24 feet of

fencing with which to build a rectangular rabbit pen to keep rabbits.

* If Ms. Brown’s students want their rabbits to have as much room as possible

how long would each of the sides of the pen be?

* How long would each of the sides of the pen be if they had only 16 feet of

Fencing?

* How would you go about determining the pen with the most room for any

amount of fencing?

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