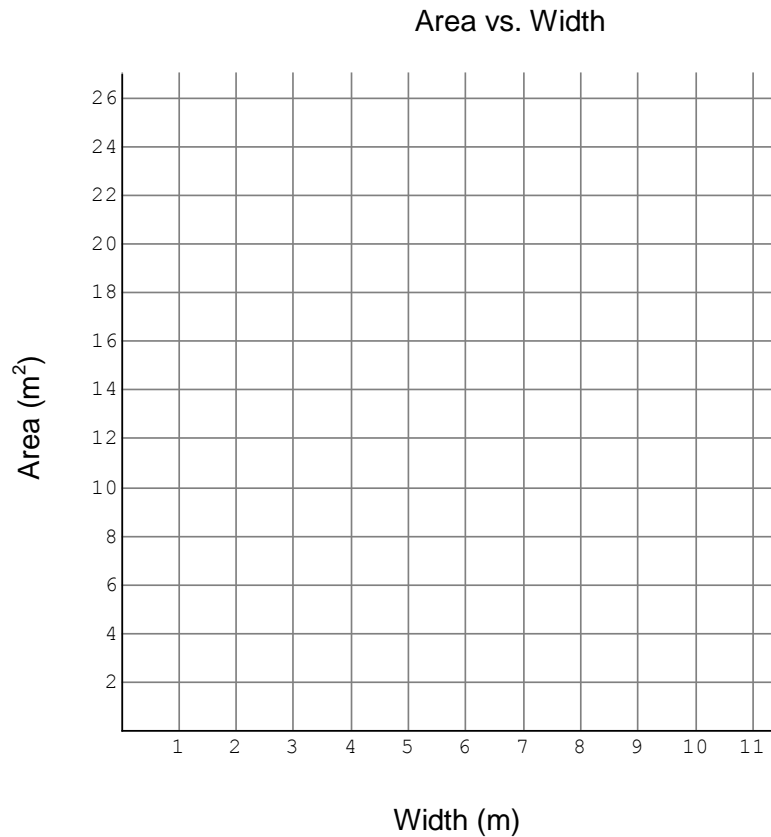


MAP 4C

Look at your chart. Describe what happens to the area when the width of the garden increases.

Construct a scatter plot of area vs. width.



Manipulate

Look at the scatter plot.

Circle the region on the scatter plot where the area of the garden is the largest.

Conclude

What are the best dimensions for the garden? Justify your choice. Include a sketch and the area of the garden that you are recommending.

Overall Conclusions

For a given perimeter, the maximum area of a rectangle will occur when the relationship between length and width is: _____