

## C11 - 3.3 - Quadratic Word Problems

Two numbers sum to 8. The sum of their squares is a minimum.

Two numbers differ by 10. The product of the larger number and twice the smaller number is a minimum. What are the numbers?

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**Jack has 60m of fencing to build a three sided fence on the side of his house.** Determine the maximum possible area of the fenced area, and the dimensions of the fence.

A rectangular fence that is split in half is against a wall. The total fencing length is 42 m. What is the max area of the fence and dimensions?