

Incorrect. The area enclosed by the fence has length  $40 + 2x$  feet and width  $20 + 2x$  feet. Therefore, this area is  $(40 + 2x)(20 + 2x) = 1,500$ . Multiply out, rewrite in standard form, divide by 4, and use the Quadratic Formula. The negative solution is impossible, so the positive solution is the correct value.