

You incorrectly simplified  $2a + 6$  to  $8a$  and  $a + 3$  to  $4a$ , and then added the lengths and widths, but you cannot combine unlike terms. The perimeter is the sum of the four sides:  $(2a + 6) + (a + 3) + (2a + 6) + (a + 3)$ . Regroup and combine *like* terms.