Bright Eyes manufactures and sells two products. The first product is a disposable contact lens set that lasts about 3 months. The second product is a wetting solution. Customers of the first product use one bottle of solution each month. As a result, bottles of solution outsell lens sets by a 3:1 ratio. Lens sets sell for $\$ 36$ per set, and have a contribution margin ratio of $50 \%$. The solution sells for $\$ 6$ per bottle, but only generates variable costs of $\$ 1$. The company's total fixed costs are $\$ 9,900,000$.
(a) What level of total sales is necessary to achieve break even?
(b) If a competitor began selling a wetting solution that forced Bright Eyes to reduce the price for its solution to \$3 (to maintain market share and the 3:1 ratio of solution to lens), how many lens sets must be sold for the company to break even?

