

A mail-order house uses 16,150 boxes a year. Carrying costs are 60 cents per box a year, and ordering costs are \$96. The following price schedule applies.

Number of Boxes	Price per Box
1,000 to 1,999	\$1.25
2,000 to 4,999	1.20
5,000 to 9,999	1.15
10,000 or more	1.10

a. Determine the optimal order quantity. **(Round your answer to the nearest whole number.)**

Optimal order quantity boxes

b. Determine the number of orders per year. **(Round your answer to 2 decimal places.)**

Number of order per year