

The Friendly Sausage Factory (FSF) can produce hot dogs at a rate of 5,000 per day. FSF supplies hot dogs to local restaurants at a steady rate of 250 per day. The cost to prepare the equipment for producing hot dogs is \$66. Annual holding costs are 45 cents per hot dog. The factory operates 290 days a year.

- a. Find the optimal run size. **(Do not round intermediate calculations. Round your answer to the nearest whole number.)**

Optimal run size

- b. Find the number of runs per year. **(Round your answer to the nearest whole number.)**

Number of runs

- c. Find the length (in days) of a run. **(Round your answer to the nearest whole number.)**

Run length (in days)