Procter & Gamble reported that an American family of four washes an average of 1 ton (2000 pounds) of clothes each year. If the population standard deviation of the distribution is 187.5 pounds, find the probability that the mean of a randomly selected sample of 50 families of four will be between 1980 and 1990 pounds.

Answer:

Probability is 2.12%, calculation is showed graphically