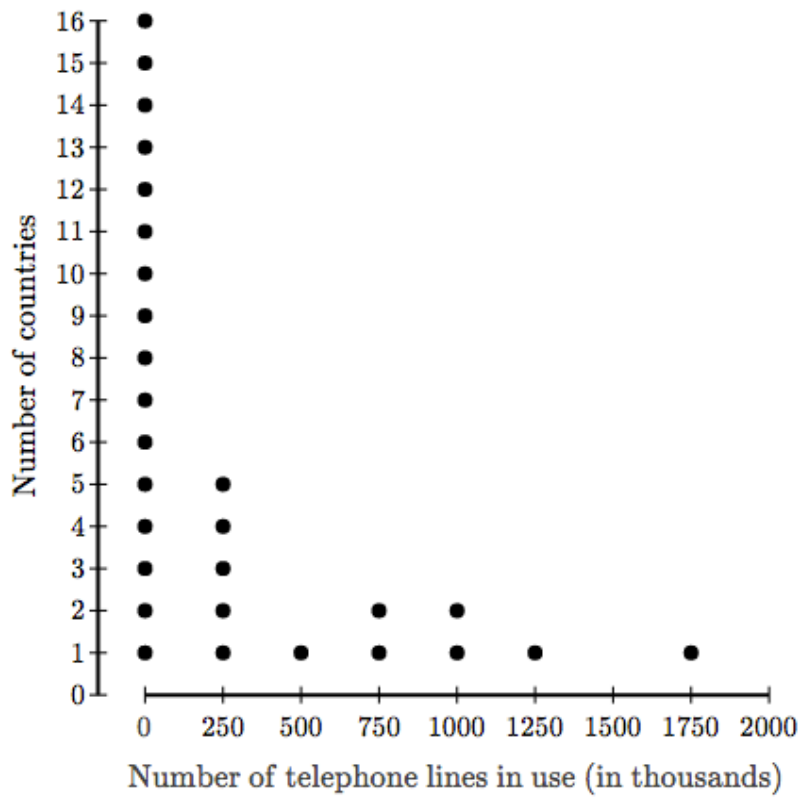


Center, Spread, and Shape of Distributions

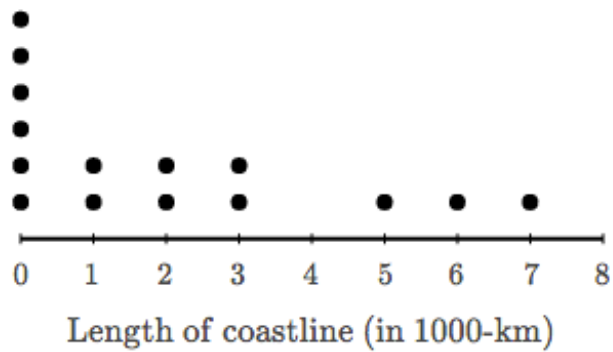


Year	2008	2009	2010	2011	2012
Per pupil expenditure	\$11,223	\$11,665	\$11,824	\$11,864	\$11,735

The table above shows the annual average per pupil educational expenditures in the United States from 2008 through 2012. What is the range of the per pupil expenditures?

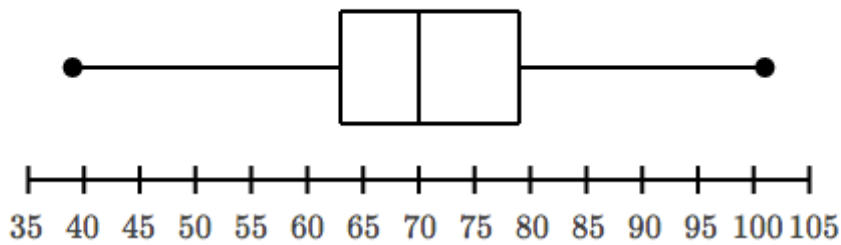
12 grams (g) of a chemical are added to a metal. The amount A , in grams, of the chemical remaining during a reaction with a metal plate decreases by 0.5 g per second. If instead the plate were dissolved, the amount \hat{A} , in grams, of chemical remaining would decrease by half of itself every 4 seconds. How many grams greater is A than \hat{A} after 12 seconds?

Center, Spread, and Shape of Distributions



In the dot plot above, the length of the coastline of each country in South America is shown in thousands of kilometers (1000-km), rounded to the nearest thousand kilometers. According to the dot plot, what is the mean length of coastline, in thousands of kilometers?

Resting heart rates (beats per minute)



The box plot above summarizes the resting heart rates, in beats per minute, of the members at a gym. What is the range of resting heart rates?

- (A) 16 beats per minute
- (B) 31 beats per minute
- (C) 62 beats per minute
- (D) 70 beats per minute

Center, Spread, and Shape of Distributions

During a five-day period, Marta served a different number of customers at her flower shop each day. The mean number of daily customers served during this period was **17**. In the following month, during the same five-day period, she served **16** customers per day for four of the days, but on the fifth day, she served **25** customers. What is the difference between the means of the number of customers she served during the two five-day periods?

-
- A 0.8
-
- B 1.0
-
- C 2.4
-
- D The two means are equal.
-