

Enrich

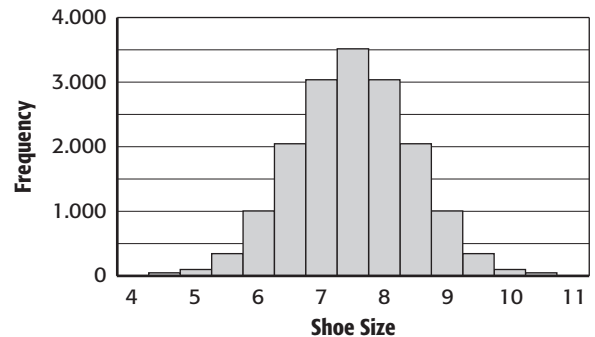
The Bell Curve

Shoe Size	4	4.5	5	5.5	6	6.5	7
Frequency	1	14	91	364	1,001	2,002	3,003

Shoe Size	7.5	8	8.5	9	9.5	10	10.5	11
Frequency	3,432	3,003	2,002	1,001	364	91	14	1

Graphing the shoe size data in the tables above results in a histogram with a bell-shaped outline.

This type of frequency distribution is called the **bell curve** or the **normal distribution curve**. The curve is symmetrical about the mean. Many data sets have normal distributions.



Exercises

On a separate sheet of paper, make a histogram for each data set. Each set has a normal distribution.

1.

Shoe Size	5	5.5	6	6.5	7	7.5	8
Frequency	1	4	12	18	12	4	1

2.

Shoe Size	3	3.5	4	4.5	5	5.5	6	6.5	7
Frequency	1	7	21	35	70	35	21	7	1