

Relative Frequency Histogram for Heights of Men with 2-inch Class Intervals

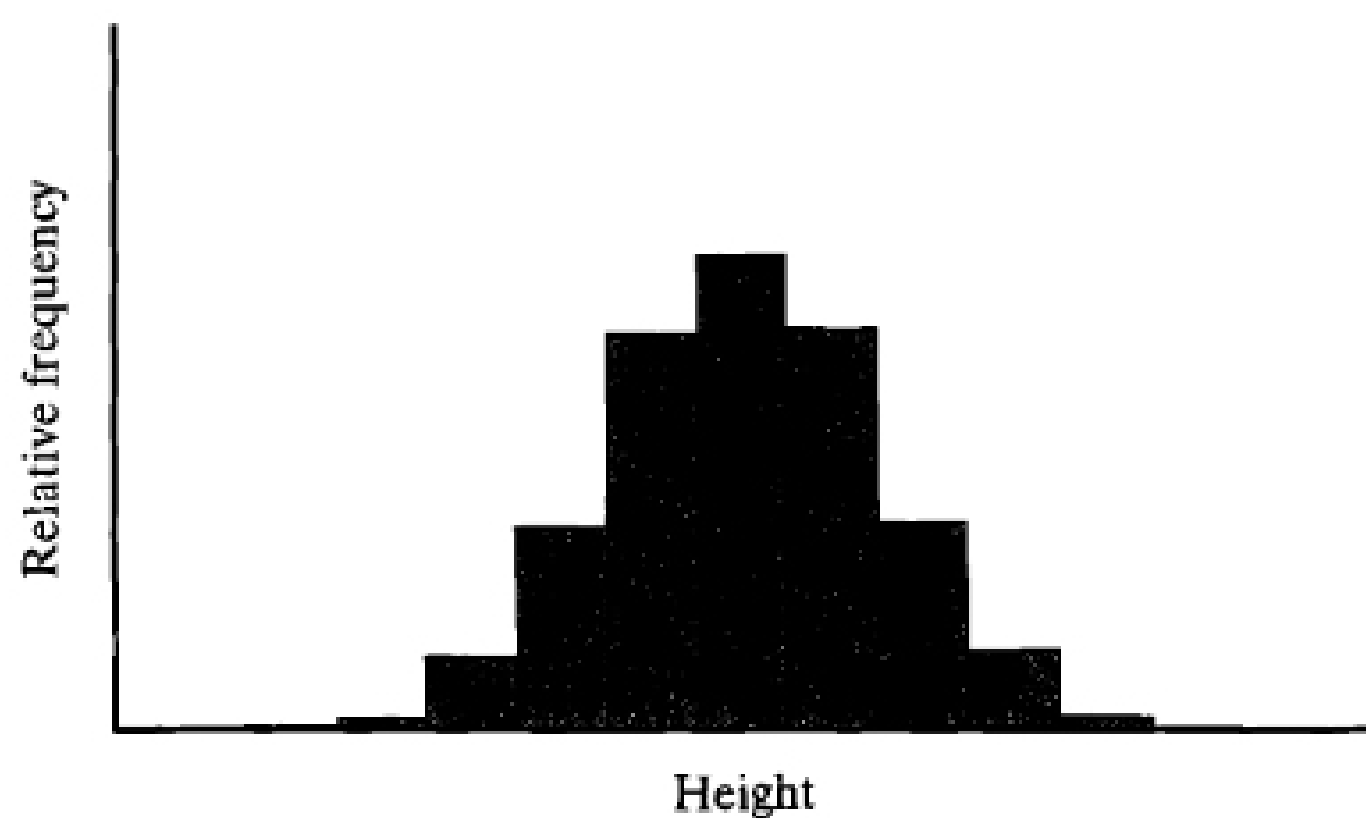


Figure 6.2.3 shows a relative frequency histogram for the same population of men, but with class intervals of width one inch.

Relative Frequency Histogram for Heights of Men with 1-inch Class Intervals

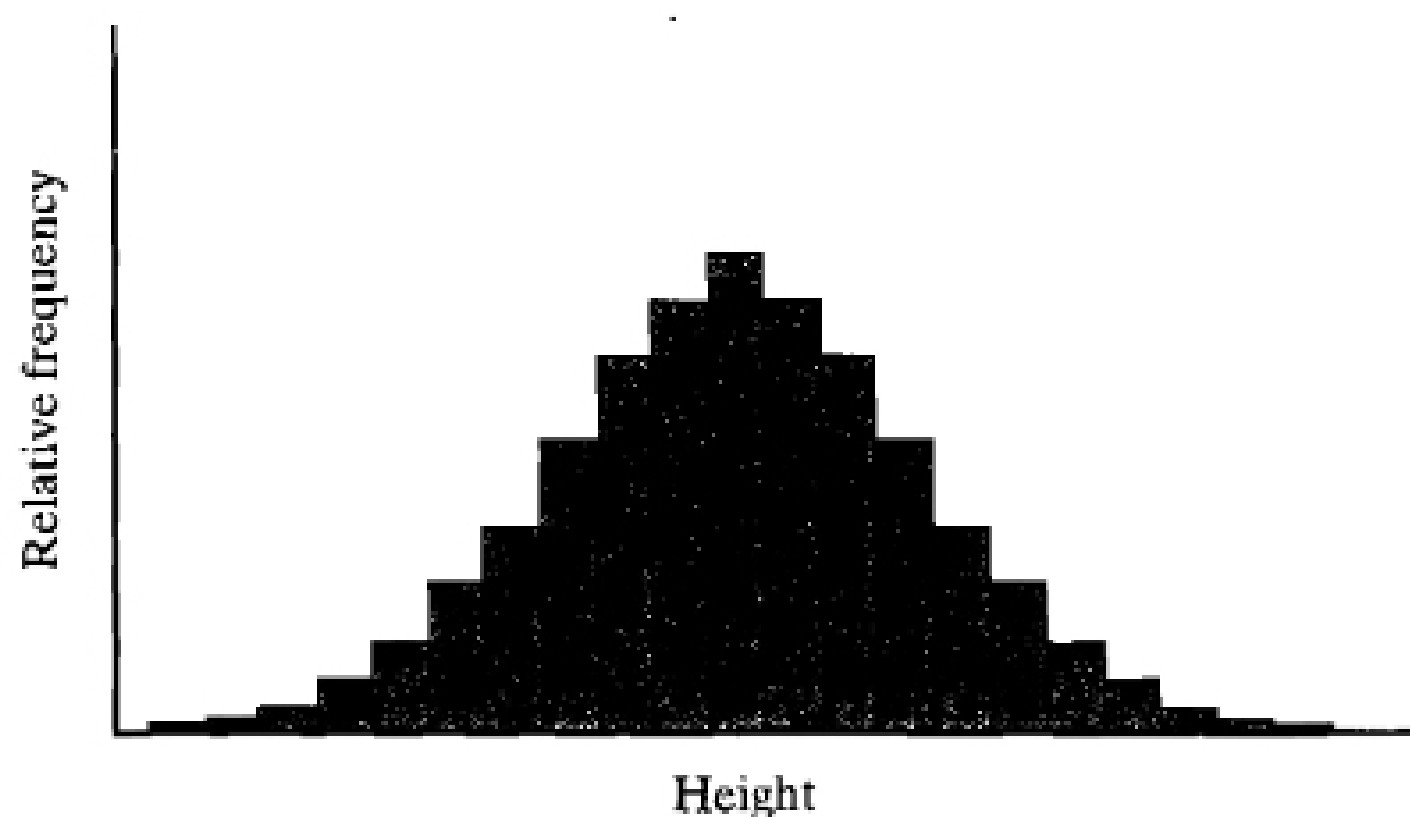
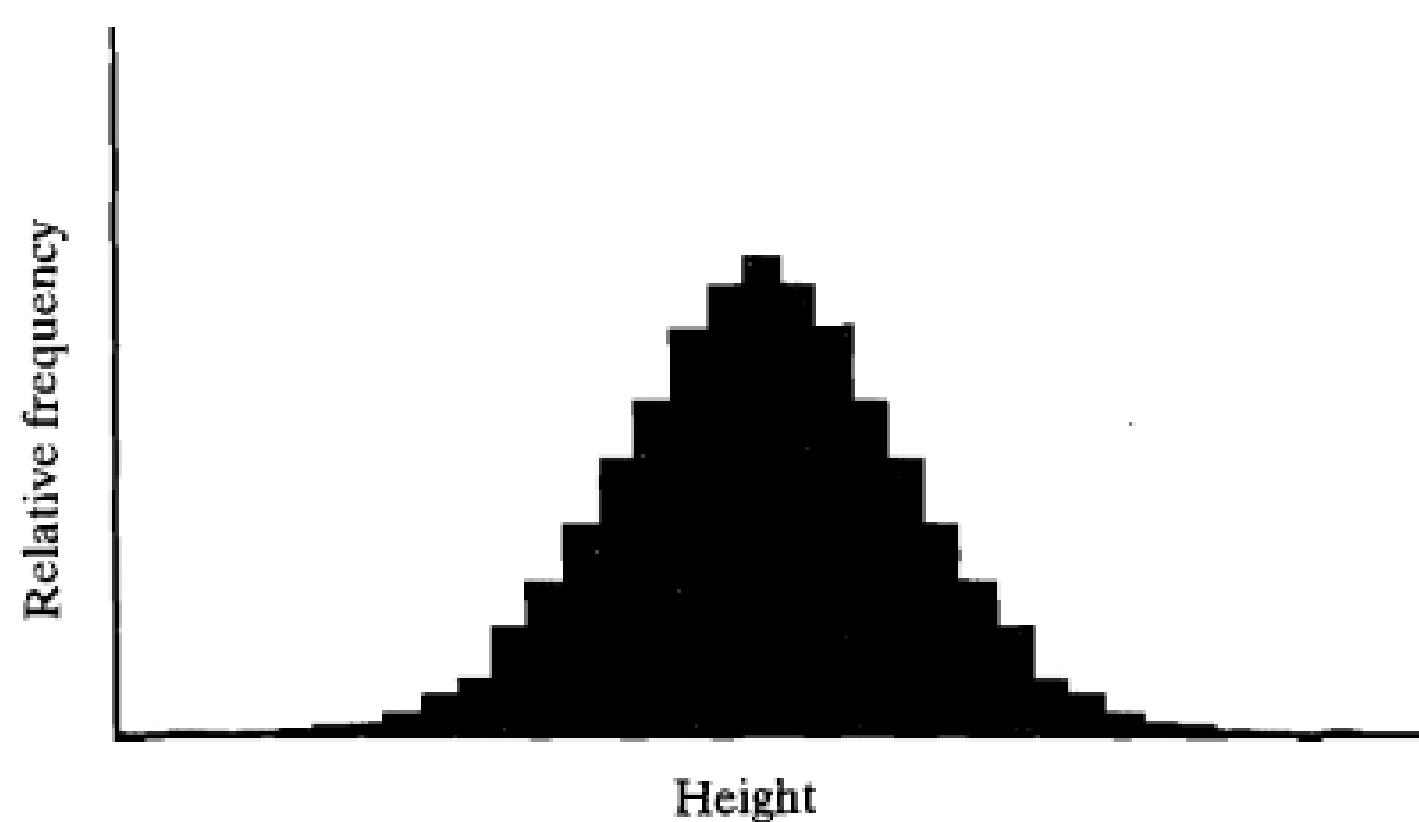


Figure 6.2.4 shows a relative frequency histogram for the same population of men, but with class intervals of width one-half inch.

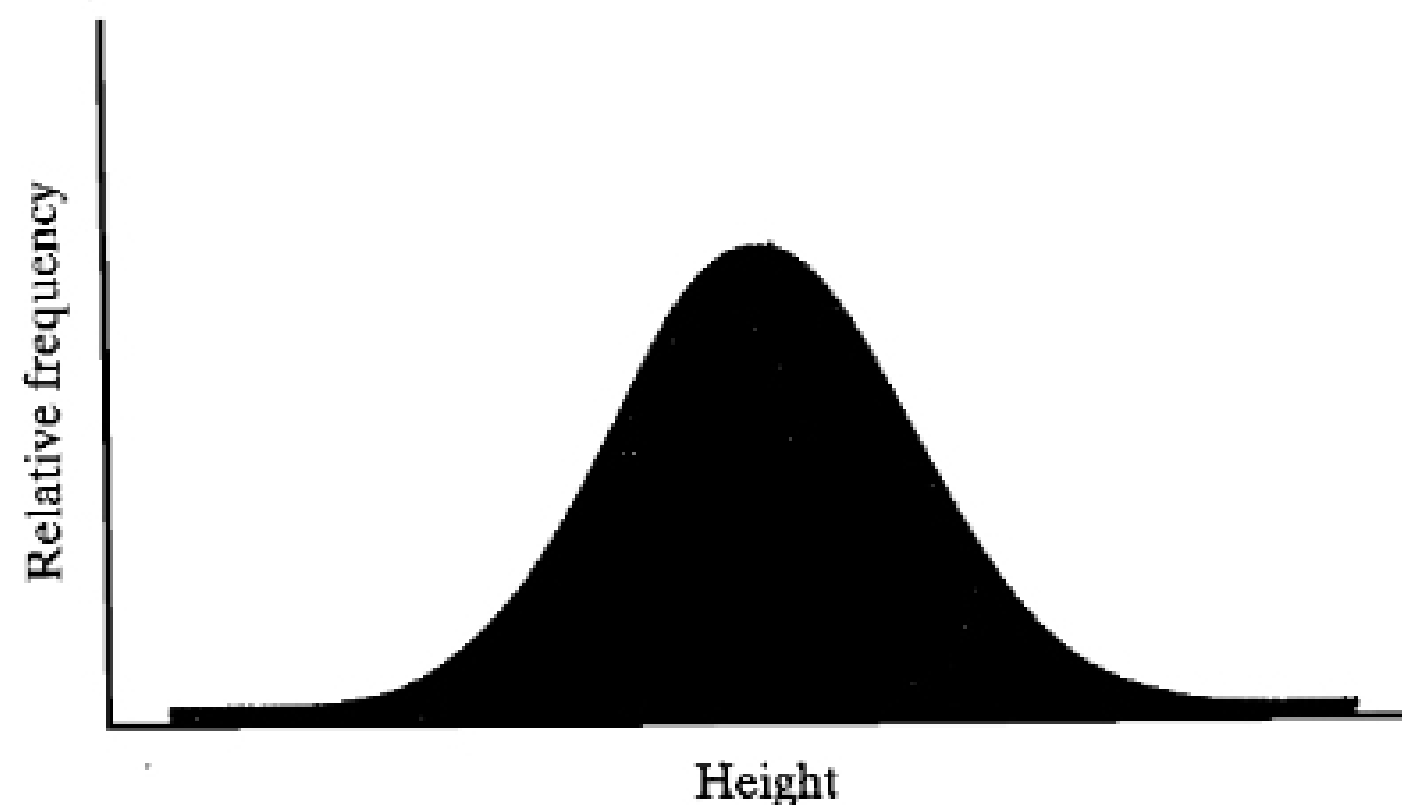
Relative Frequency Histogram for Heights of Men with 1/2-inch Class Intervals



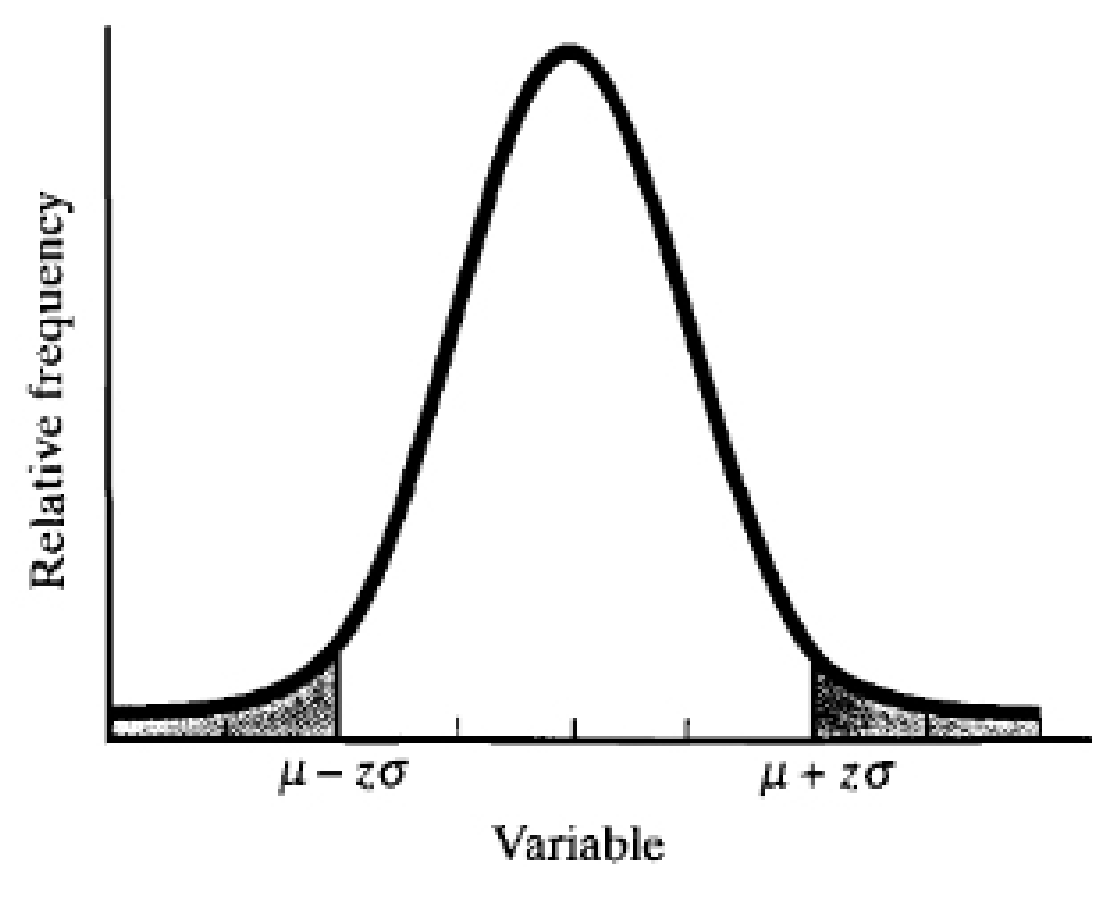
Density curve – a curve that describes the overall pattern of a distribution

- total area under a probability density curve is 1.0
- the curve never drops below the horizontal axis

**FIGURE 6.2.1**  
Relative Frequency Histogram of  
a *Normal* Population



**FIGURE 6.2.5**  
Proportion of Values  $< \mu - z\sigma$   
Is Equal to Proportion of Values  
 $> \mu + z\sigma$



**FIGURE 6.2.6**  
Proportion of Values  $< \mu + z\sigma$   
Is Equal to Proportion of Values  
 $> \mu - z\sigma$

