

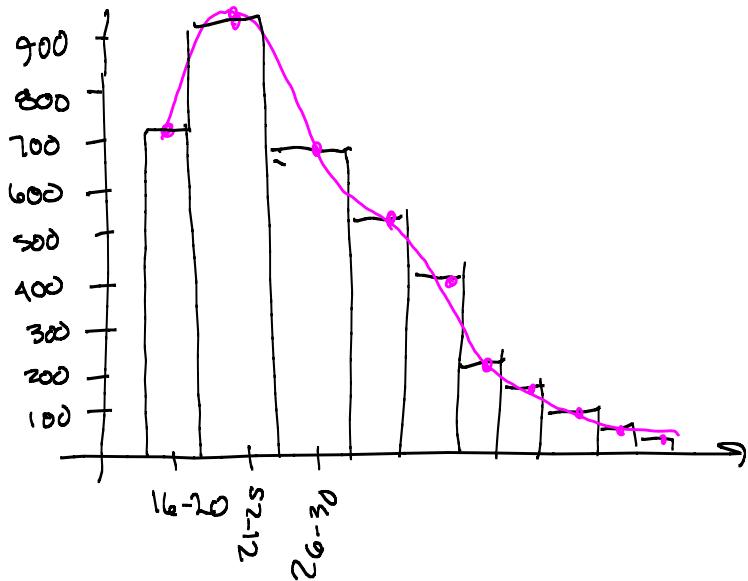
2.4: Distribution Shapes

The distribution of a data set is a description of the values of a variable. A graphical representation makes it easier to see what values of the variable occur most frequently.

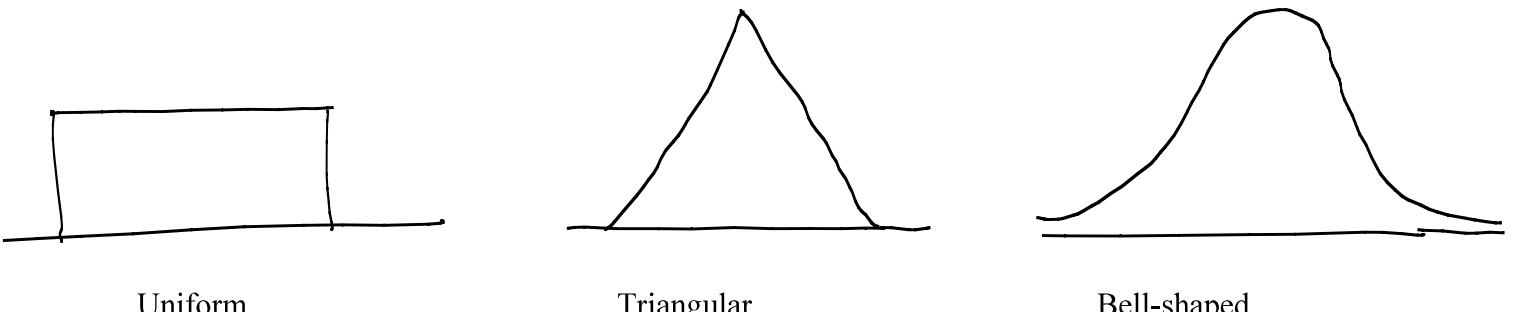
If we connect the tops of the histogram bars, we can depict the distribution with a smooth curve.

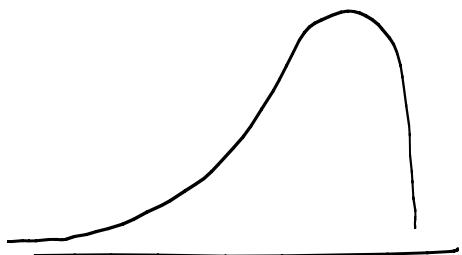
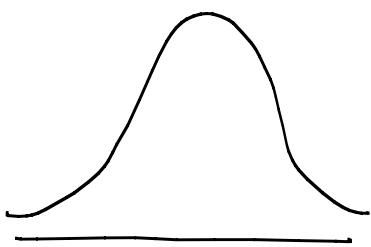
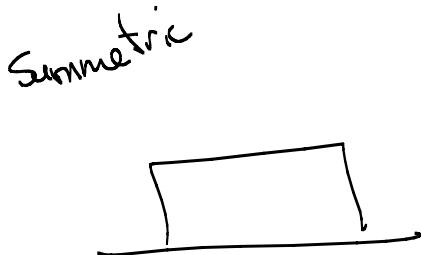
Example 1:

Age	Frequency
16-20	702
21-25	925
26-30	642
31-35	525
36-40	397
41-45	219
46-50	181
51-55	102
56-60	81
61+	50

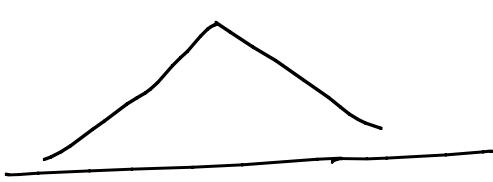
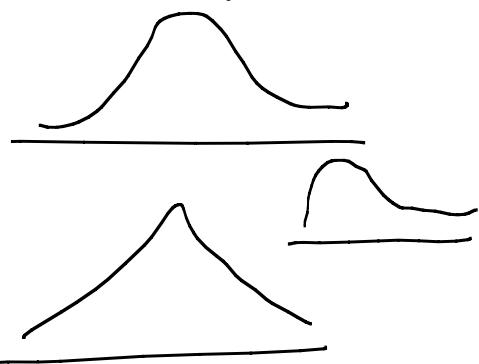


Shape:

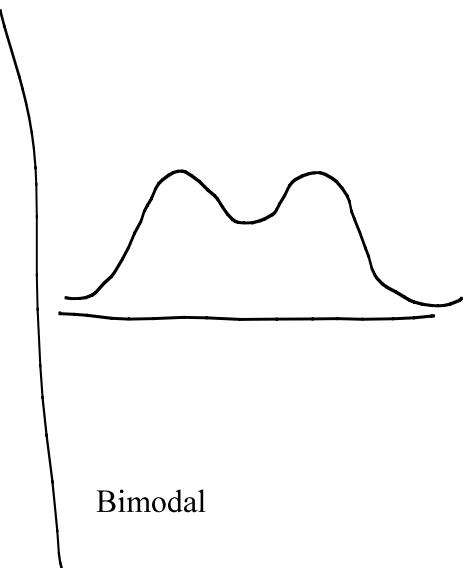


Skewness:Left skewed
(not symmetric)Not skewed
(symmetric)Right skewed
(not symmetric)**Symmetry:**

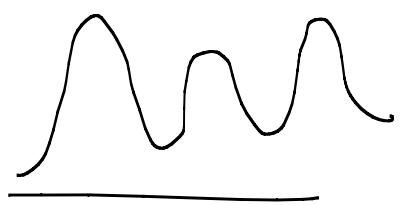
Symmetric

**Modality:**

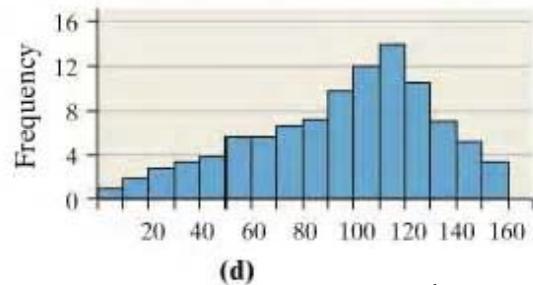
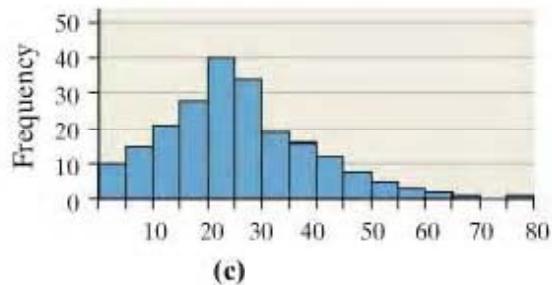
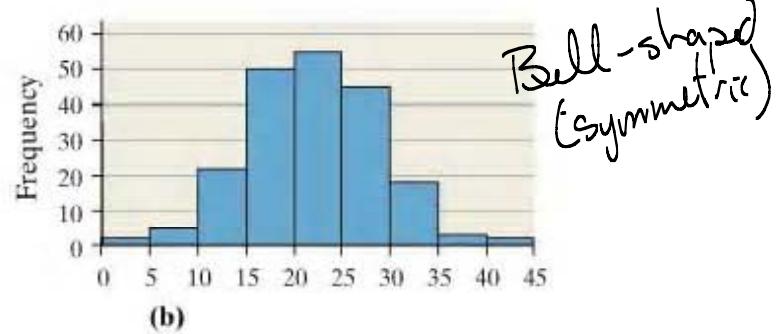
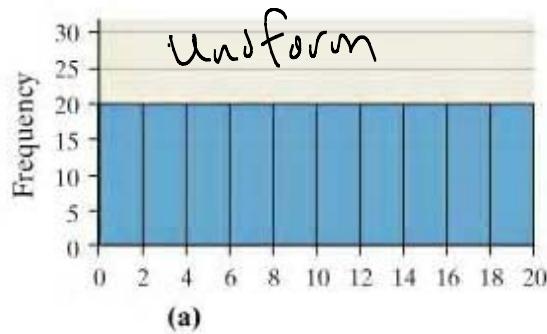
Unimodal



Bimodal



Multimodal

Example 2:

Right-skewed

left-skewed