

**Sampling**

Sample

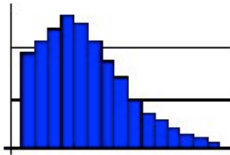
Population

Random Sample

Stratified Sampling

**Distributions**

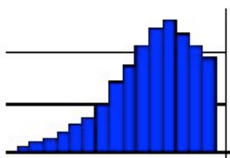
(Tail) Skewed to the Right (positively skewed)



If a housing market was Skewed to the Right; what would this mean in terms of housing prices?

How would the mean and median be related?

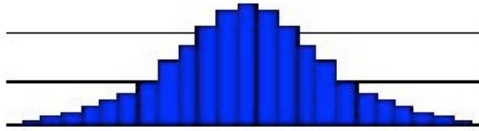
(Tail) Skewed to the Left (negatively skewed)



If a housing market was Skewed to the Left; what would this mean in terms of housing prices?

How would the mean and median be related?

Symmetric

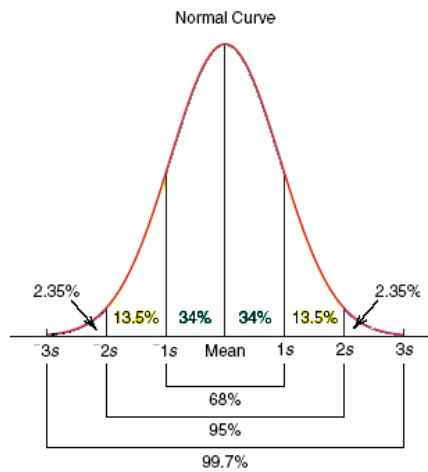


If a housing market was Symmetric; what would this mean in terms of housing prices?

How would the mean and median be related?

### Normal Distributions

Normal Curve & 68% - 95% - 99.7% rule



Example E

### Percentiles

Definition: pth percentile

Example G

**Z-Scores**

Definition: Z-Score

Example I

Definition: Rare Event

**Dice Rolling Simulation**

**SUM OF TWO DICE DISTRIBUTION CHART**

<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	