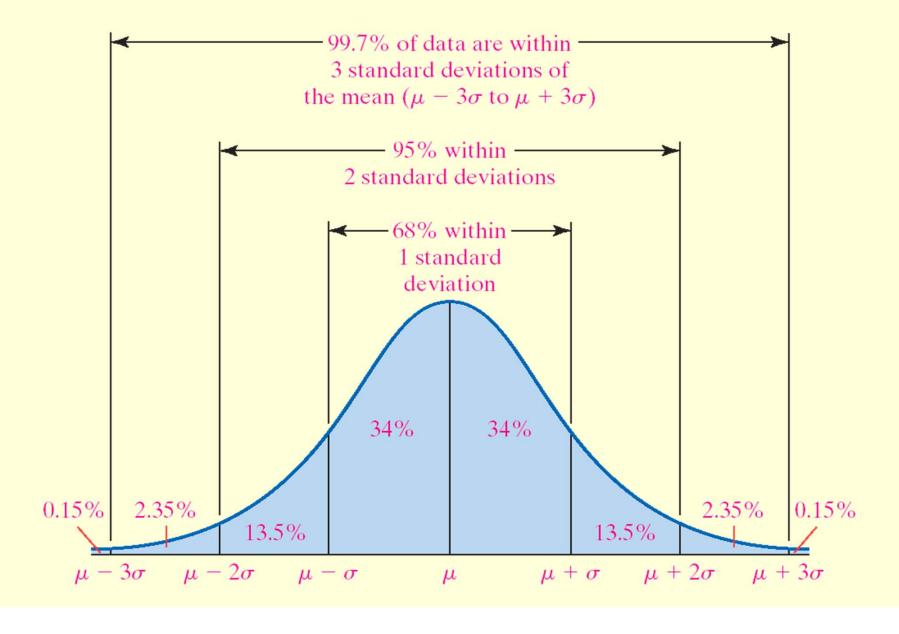
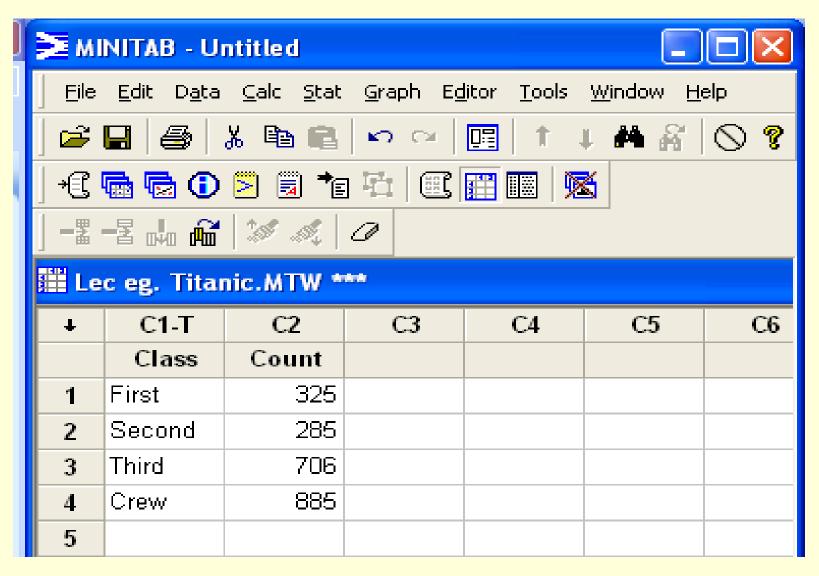
Parameters vs. Statistics

	Population	Sample
Size	\	n
Mean	μ	$ar{X}$
Standard deviation	σ	S
Proportion	p	\hat{p}

The Empirical Rule or The 68–95–99.7 Rule

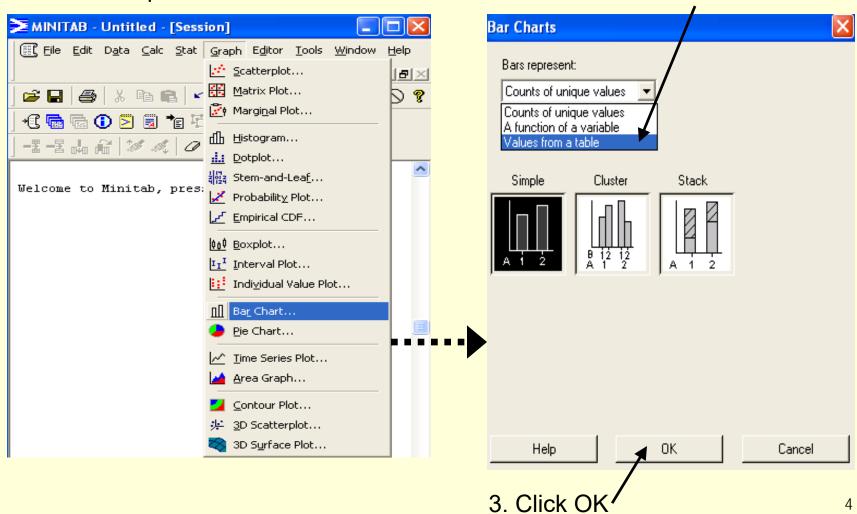


Using Minitab: Entering Data



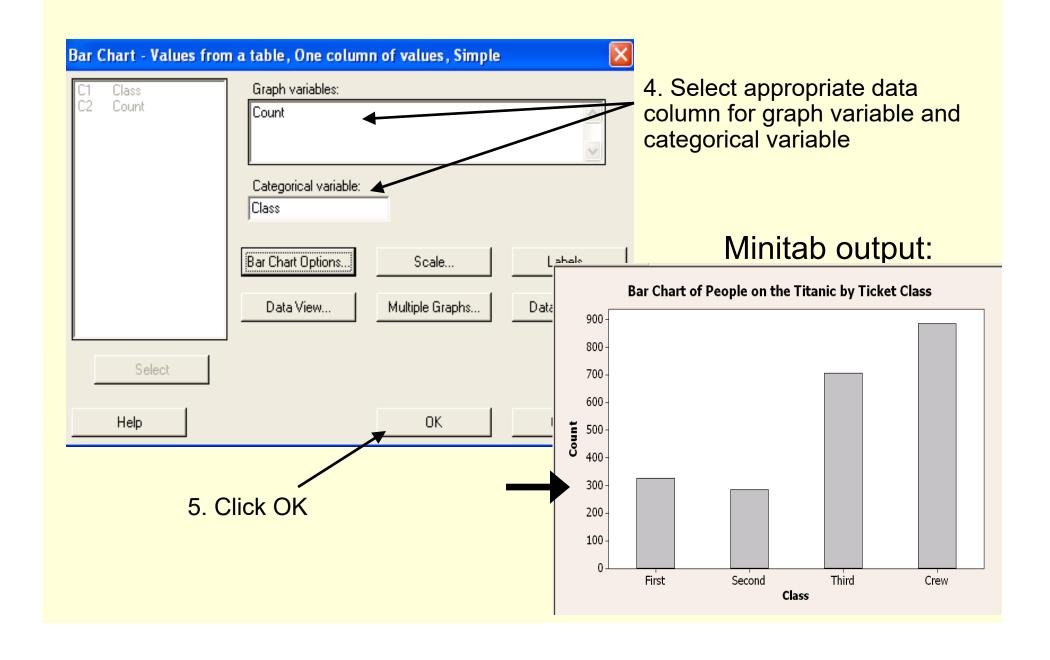
Using Minitab: Bar Chart

1. Choose Graph / Bar Chart...



2. Select "value from a table"

Using Minitab: Bar Chart



Using Minitab: Pie Chart

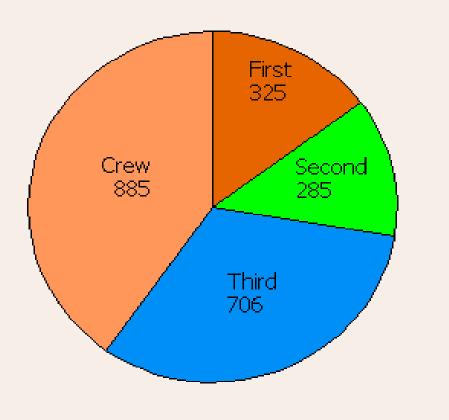
3D Surface Plot...

1. Choose Graph / Pie Chart... 2. Select appropriate data column for MINITAB - Untitled categorical variable & summary variable File Edit Data Calc Stat Graph Editor Tools Window Help Scatterplot... X 🖺 🗈 Pie Chart <u>Matrix Plot</u>... +C 👼 🔂 🛈 🗵 🛢 🔭 Chart raw data 🌠 Marginal Plot... Class 墨墨品品 Count Chart values from a table ∰ <u>H</u>istogram... Categorical variable: E Session Dotplot... Class Welcome to Minitab, pr 1 Stem-and-Leaf... Summary variables: Probability Plot... Count Empirical CDF... |¢¢∮ <u>B</u>oxplot... II Interval Plot... Pie Chart Options. Individual Value Plot... Labels... ∏ Bar Chart... Multiple Graphs... Data Options... 🔑 Pie Chart... Cancel ✓ Time Series Plot... 🚣 🛚 <u>A</u>rea Graph... 🔼 Contour Plot... 3. Click OK ½ 3D Scatterplot...

Using Minitab: Pie Chart

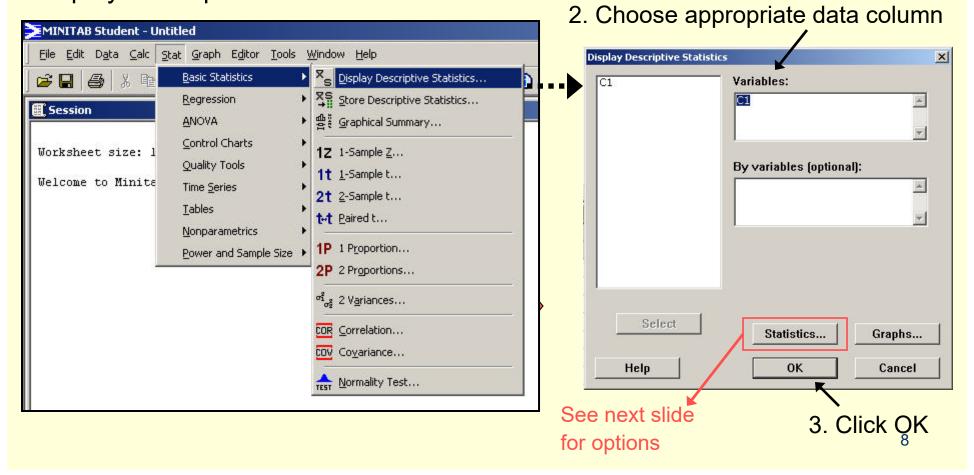
Minitab output:

Pie Chart of The People on The Titanic by Ticket Class

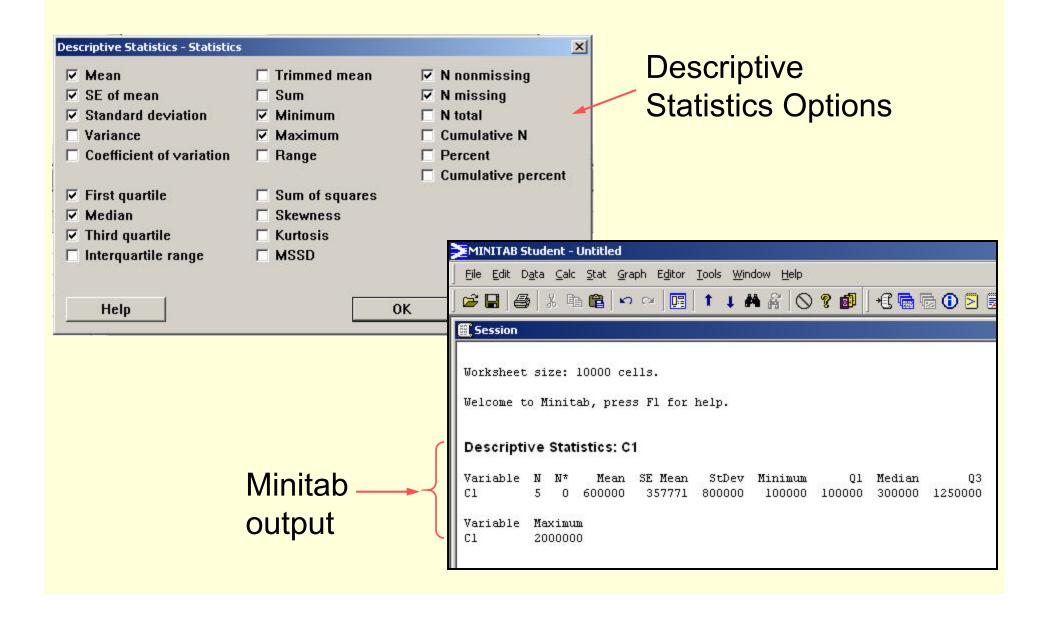


Using Minitab: Descriptive Statistics

1. Select Stat / Basic Statistics / Display Descriptive statistics...

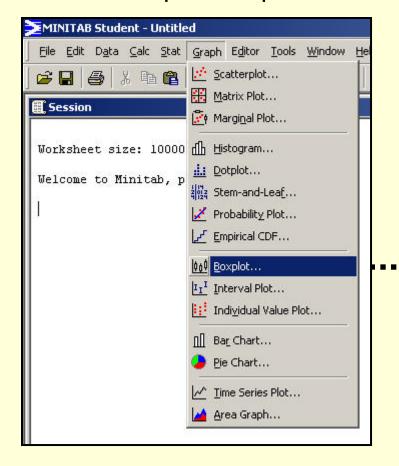


Using Minitab: Descriptive Statistics



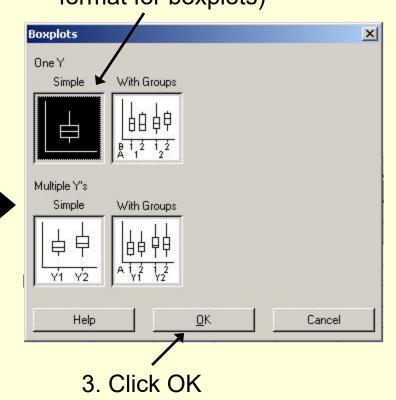
Using Minitab: Boxplot

1. Select Graph / Boxplot...



Choose desired plot type:

 (note that Minitab uses a vertical format for boxplots)



Using Minitab: Boxplot

Minitab output:

