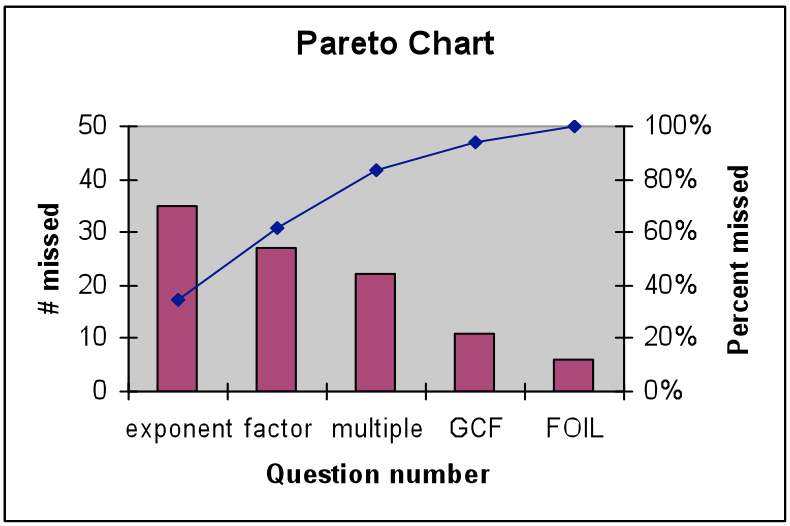
Pareto chart



A pareto chart is used to represent the number of errors on questions as related to the total number of errors made. The left scale of the graph is the number of errors and the right scale represents the cumulative percent of errors made.

A pareto chart is a way to organize information from an item analysis of an assessment. If an assessment is given electronically creating an item analysis is relatively easy. For teacher created assessments this requires more effort. Once the item analysis is created it is easy to see which questions most of the students are missing and where the teacher should focus re-teaching.

A paraeto chart could also be used analyze problems such as “Why are students be sent to the office?”, “Why are students coming late to school?” or “Which teachers are sending students to the office?”

Creating a Pareto chart.

A pareto chart is used to represent the number of errors on questions as related to the total number of errors made. The left scale of the graph is the number of errors and the right scale represents the cumulative percent of errors made.

Create a table similar to below:
Arrange the questions in order from most missed to least missed.

Spreadsheet with formulas

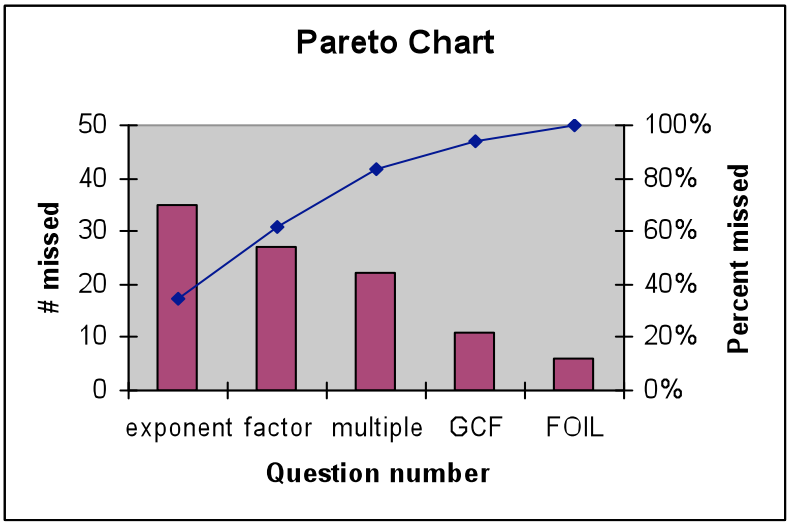
	A	B	C
1	Question	Number of errors	cumulative percent
2	exponent	35	=B2/B7
3	factor	27	=(B2+B3)/B7
4	multiple	22	=(B2+B3+B4) /B7
5	GCF	11	=(B2+B3+B4+ B5)/B7
6	FOIL	6	=(B2+B3+B4+ B5+B6)/B7
7		=sum(B2:B6)	

Spreadsheet with amounts

	A	B	C
1	Question	Number of errors	cumulative percent
2	exponent	35	35%
3	factor	27	61%
4	multiple	22	83%
5	GCF	11	94%
6	FOIL	6	100%
7		101	

To create the pareto chart

- select the cells A1 through C6
- from the top menu bar choose “insert”, “chart”
- the chart is a “custom chart” and is called “line column on two axis”
- select “next” to see the graph, if it looks OK select “next” again
- From this screen you can title your graph, label the right and left columns, and many other characteristics of the graph.
- Select “Finish” and your graph will appear as an interactive graph within the spreadsheet.
- Double clicking or right clicking will provide a menu which can be used to further enhance the look of the graph.



Creating a Radar Graph

A radar graph displays similar information to a line graph only as spokes of a wheel. It works best to compare different quantities.

The following values have been placed in a spreadsheet.

topic	Pre-test	Post - test
exponent	35	51
factor	27	32
multiple	41	50
GCF	21	41
FOIL	39	52

To create a radar Graph

- Select the area
- Select “insert”, “chart”
- From the standard type select “radar”
- Select “next” to see the graph and “next”
- From this screen you can title your graph, label the right and left columns, and many other characteristics of the graph.
- Select “Finish” and your graph will appear as an interactive graph within the spreadsheet.
- Double clicking or right clicking will provide a menu which can be used to further enhance the look of the graph.