

Pareto Chart Cheat Sheet

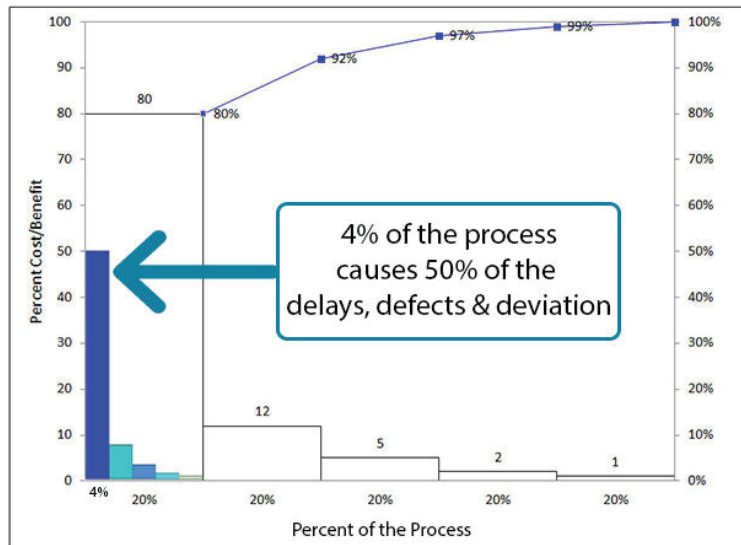
Key Concepts

- ◇ The Pareto principle (the 80-20 rule) states that 80% of consequences are directly related to 20% of causes. For example:
 - 80% of wealth is owned by 20% of the population.
 - 80% of errors occur in 20% of a process.
- ◇ Errors can be defects, delay, scratches, dents, patient falls, infections, injuries, parts that are too long, too short, too thick, too heavy, etc.
- ◇ Pareto charts demonstrate the 80-20 rule by combining a sorted bar chart with a line graph that shows cumulative percentages.
- ◇ Pareto charts help to pinpoint where you should focus your efforts for maximum benefit (i.e. on the big bars to the left).

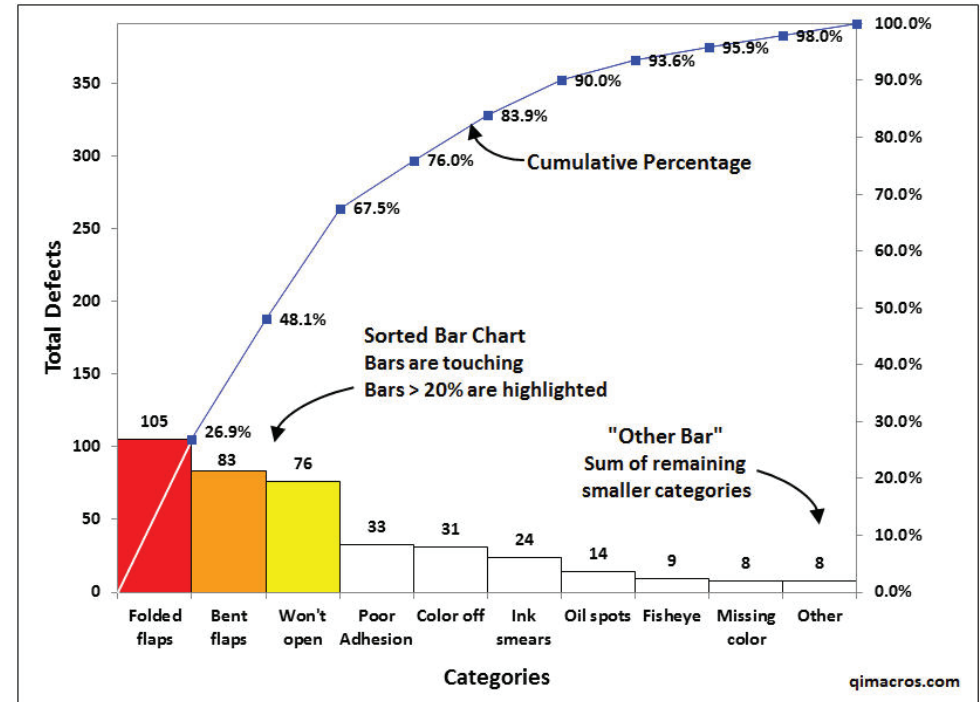
The 4-50 Rule

Did you know the 80-20 rule is a power law?

If you apply the 80-20 rule to itself, you'll find that as little as 4% a process produces over 50% (64% to be exact) of the delay, defects and lost profit.



Anatomy of a Pareto Chart



What Makes an Authentic Pareto Chart?

- Cumulative line graph with %'s
- Sorted bar chart with no space between bars.
- Bars > 20% are highlighted - the rest are not.
- An "Other" bar on the far right that summarizes misc categories.

Beware of bar charts impersonating as Pareto charts!

Pareto chart features included in QI Macros for Excel

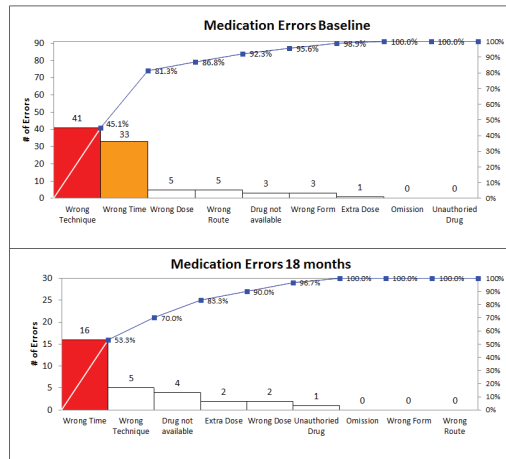
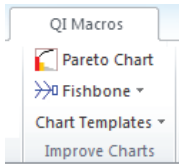
Create Multiple Pareto Charts at the Same Time

Select your data

Click on Pareto Chart

QI Macros Does the Rest

	A	B	C
1		Med Errors Baseline	Med Errors 18 mo
2	Drug not available	3	4
3	Extra Dose	1	2
4	Omission	0	0
5	Unauthorized Drug	0	1
6	Wrong Dose	5	2
7	Wrong Form	3	0
8	Wrong Route	5	0
9	Wrong Technique	41	5
10	Wrong Time	33	16



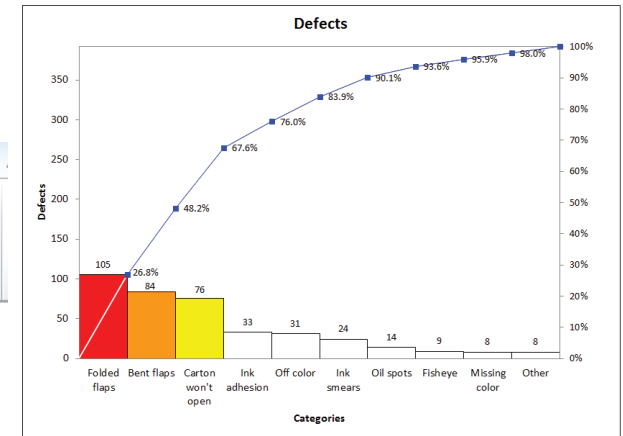
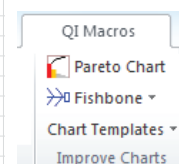
Create Pareto Charts from Column of Text

Select the heading (A1)

Click on Pareto Chart

QI Macros Does the Rest

A	
1	Defects
2	Bent flaps
3	Carton won't open
4	Folded flaps
5	Folded flaps
6	Off color
7	Bent flaps
8	Carton won't open
9	Bent flaps
10	Ink smears
11	Folded flaps
12	Bent flaps
13	Ink smears
14	Folded flaps
15	Carton won't open
16	Carton won't open
17	Ink adhesion
18	Carton won't open
19	Off color
20	Bent flaps
21	Carton won't open
22	Carton won't open
23	Folded flaps



Advantages of using QI Macros to create Paretos

- Easy to use. Just select your data and then Pareto from the menu.
- Works right in Excel. No other application to learn.
- Define the number of bars you want before summarizing the rest into an "Other" bar.
- Bars over 20% are highlighted with color.
- Compatible with PC and Mac. Excel 2010 - 2019 and Office 365.
- Reduce risk of manual calculations.
- Save Time!

Learn more at: www.qimacros.com/pareto-chart-excel/

Pareto Chart Template

Just type your data into the yellow input area and click update chart

