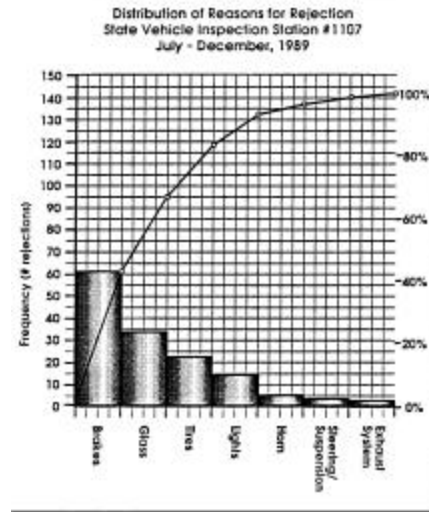


# Pareto Diagram



source: Council for Continuous Improvement

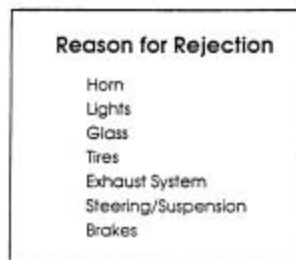
1

## Step 1: Decide on problem, type of data, and causes or categories.

Problem: Vehicle safety inspection rejects

Type of Data: Number of rejections at state inspection station #1107 during the months of July-December

Defect Categories:



source: Council for Continuous Improvement

2

## Step 2: Collect the data.

Reason for Rejection	Number of Rejects
Horn	5
Lights	14
Glass	34
Tires	23
Exhaust System	2
Steering/Suspension	3
Brakes	61

source: Council for Continuous Improvement

3

## Step 3: Order the causes or categories.

Reason for Rejection	Number of Rejects
Brakes	61
Glass	34
Tires	23
Lights	14
Horn	5
Steering/Suspension	3
Exhaust System	2

source: Council for Continuous Improvement

4

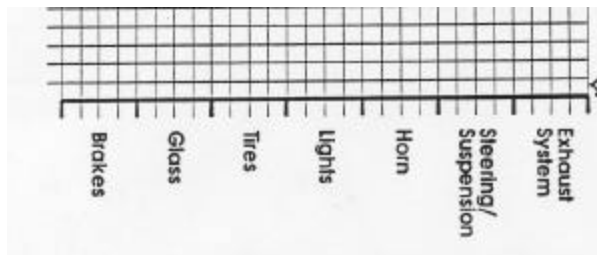
### Step 4: Calculate the cumulative totals.

Reason for Rejection	Number of Rejects	Cumulative Number of Defects
Brakes	61	61
Glass	34	95
Tires	23	118
Lights	14	132
Horn	5	137
Steering/Suspension	3	140
Exhaust System	2	142

source: Council for Continuous Improvement

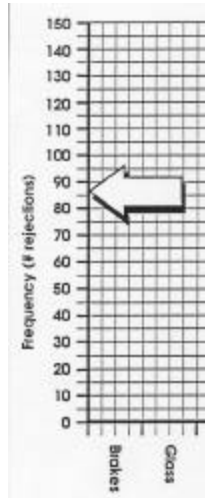
5

### Step 5: Draw and label the horizontal axis.



source: Council for Continuous Improvement

6

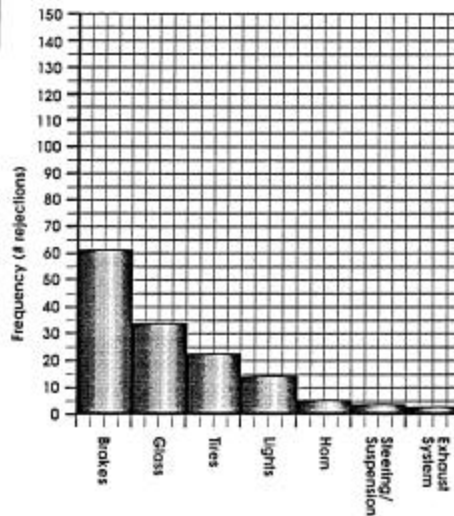


**Step 6: Draw, scale, and label the vertical axis.**

source: Council for Continuous Improvement

7

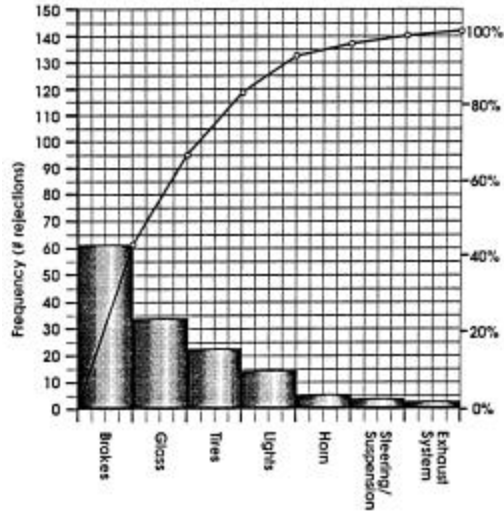
**Step 7: Draw bars for each cause or category.**



source: Council for Continuous Improvement

8

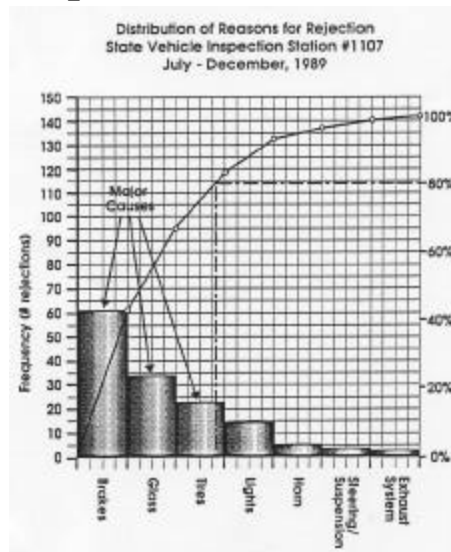
## Step 8: Draw cumulative total lines.



source: Council for Continuous Improvement

9

## Interpret the Pareto Chart.



source: Council for Continuous Improvement

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