STATISTIKA INDUSTRI I

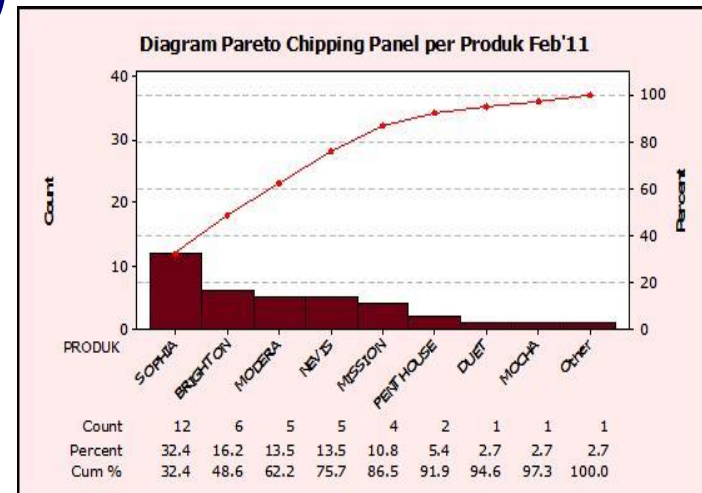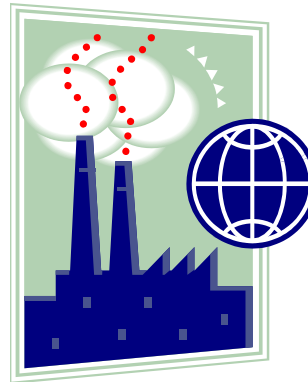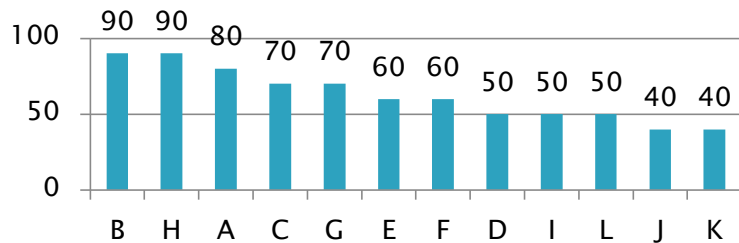Agustina Eunike, ST., MT., MBA.

STATISTIK

- The science of collecting, organising, summarising, analysing, and interpreting data
- **Goal:** use imperfect information (our data) to infer facts, make predictions, and make decisions
- **Applications everywhere**

STATISTIK

Nilai Statistika Per Mahasiswa

Bar chart with values: B=90, H=90, A=80, C=70, G=70, E=60, F=60, D=50, I=50, L=50, J=40, K=40

Diagram Pareto Chipping Panel per Produk Feb'11

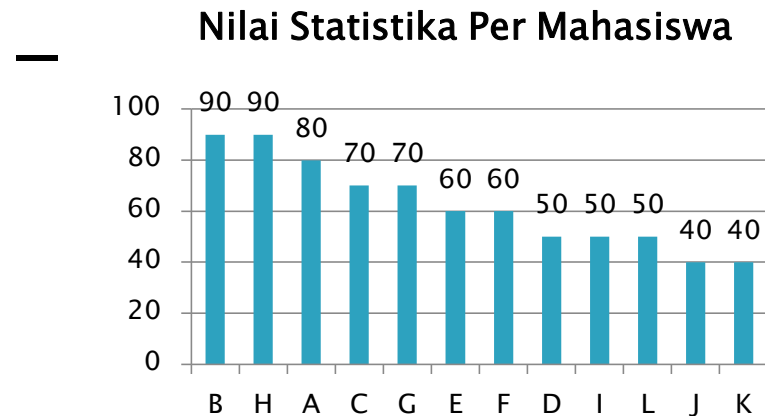| PRODUK	SOPHIA	BRIGHTON	MODERA	NEVIS	MISSION	PENT HOUSE	DUET	MOCHA	Other
Count	12	6	5	5	4	2	1	1	1
Percent	32.4	16.2	13.5	13.5	10.8	5.4	2.7	2.7	2.7
Cum %	32.4	48.6	62.2	75.7	86.5	91.9	94.6	97.3	100.0

STATISTIK

- A statistic is a number or value, in context

- It is **essential** to understand the context
  - Which data?
  - How collected?
  - On whom?
  - For what?

STATISTIK

- STATISTIK DESKRIPTIF
  - How many students are wearing Blackberry?
  -

Nilai Statistika Per Mahasiswa

  - Keywords: summarize or describe (with numbers or pictures)

STATISTIK

- STATISTIK INFERENSIA
  - Inductive
  - Inferences
  - Making conclusions or decisions based on data
  - Key Term:
    - Population
    - Sample
    - Sample Statistic
    - Population Parameter

STATISTIK

- Tugas:
  - Berikan ilustrasi mengenai statistik deskriptif dan statistik inferensia dari keadaan di sekitar anda.