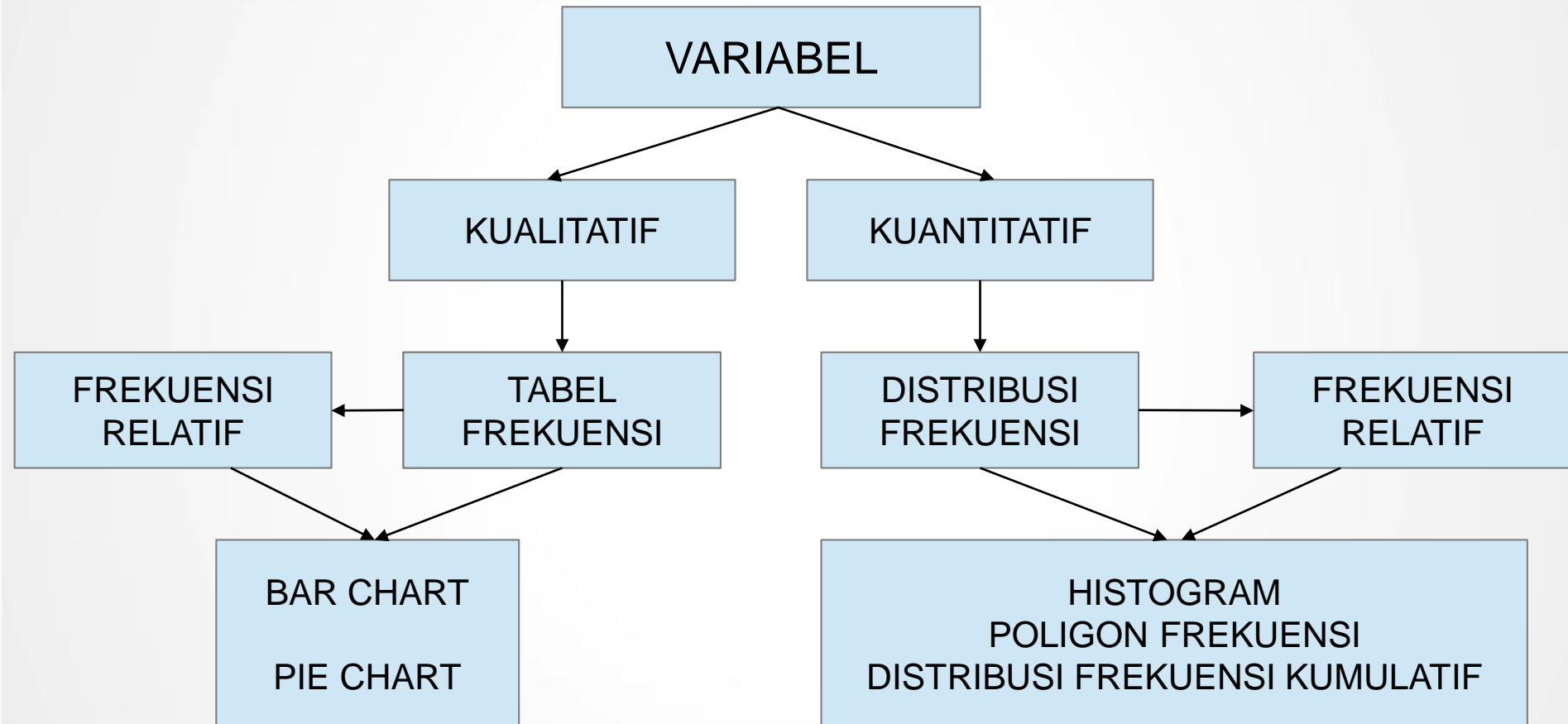


Statistik dan Probabilitas: Representasi Visual

<http://complexminds.net>

Tjipto Juwono, Ph.D.
Surya University

Kualitatif - Kuantitatif

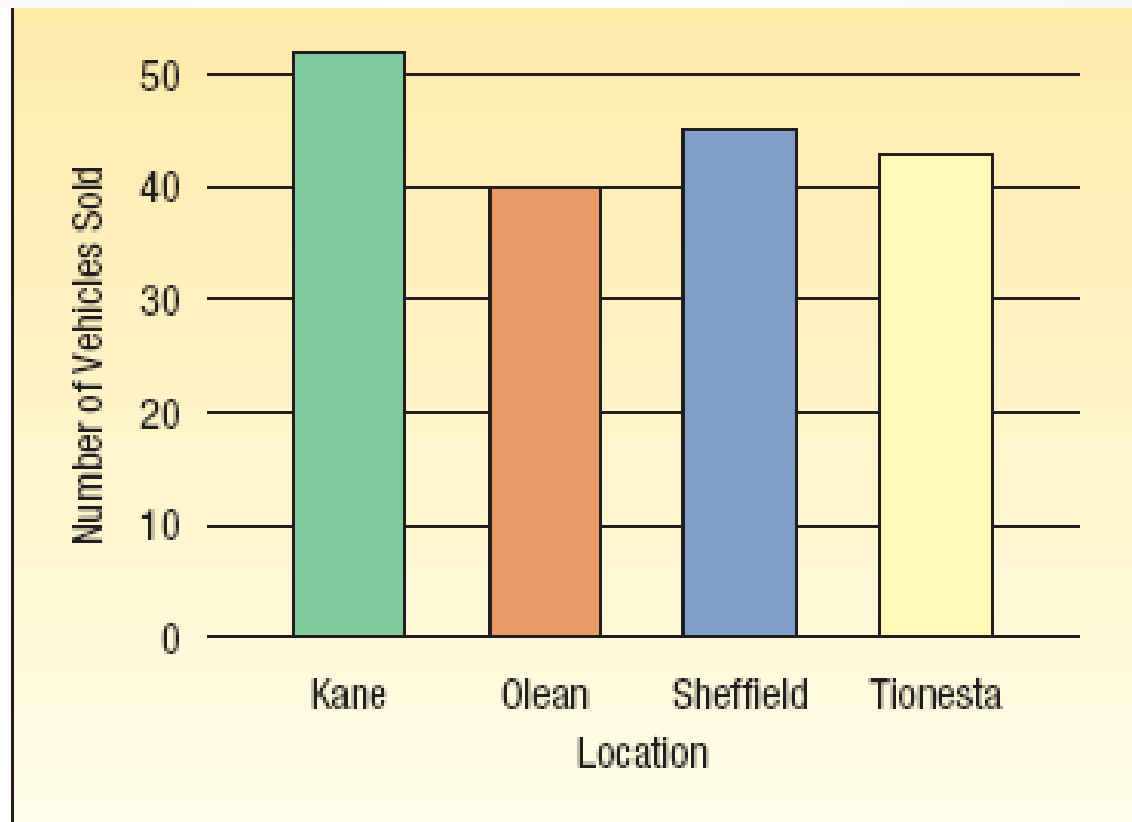


DATA KUALITATIF: TABEL FREKUENSI

**CONTOH:
PENJUALAN MOBIL DI EMPAT LOKASI**

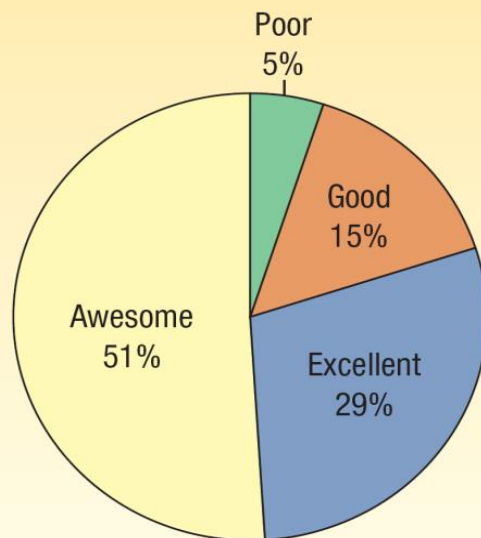
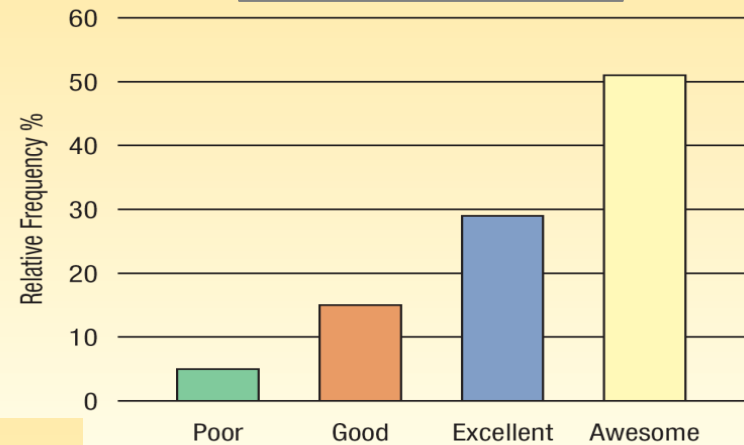
LOKASI	JUMLAH MOBIL
Kane	52
Olean	40
Sheffield	45
Tionesta	43
TOTAL	180

DATA KUALITATIF: BAR CHART



DATA KUALITATIF: FREKUENSI RELATIF

Awesome	102
Excellent	58
Good	30
Poor	10

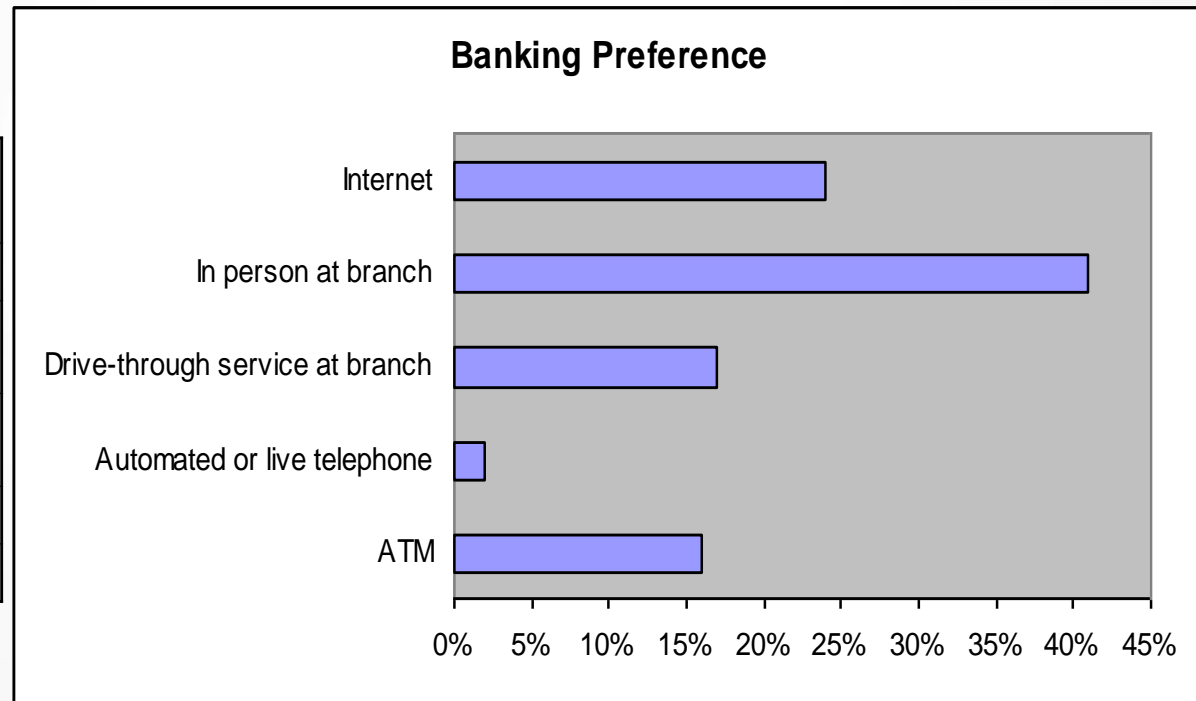


Data Kualitatif: Frekuensi Relatif

Banking Preference?	Percent
ATM	16%
Automated or live telephone	2%
Drive-through service at branch	17%
In person at branch	41%
Internet	24%

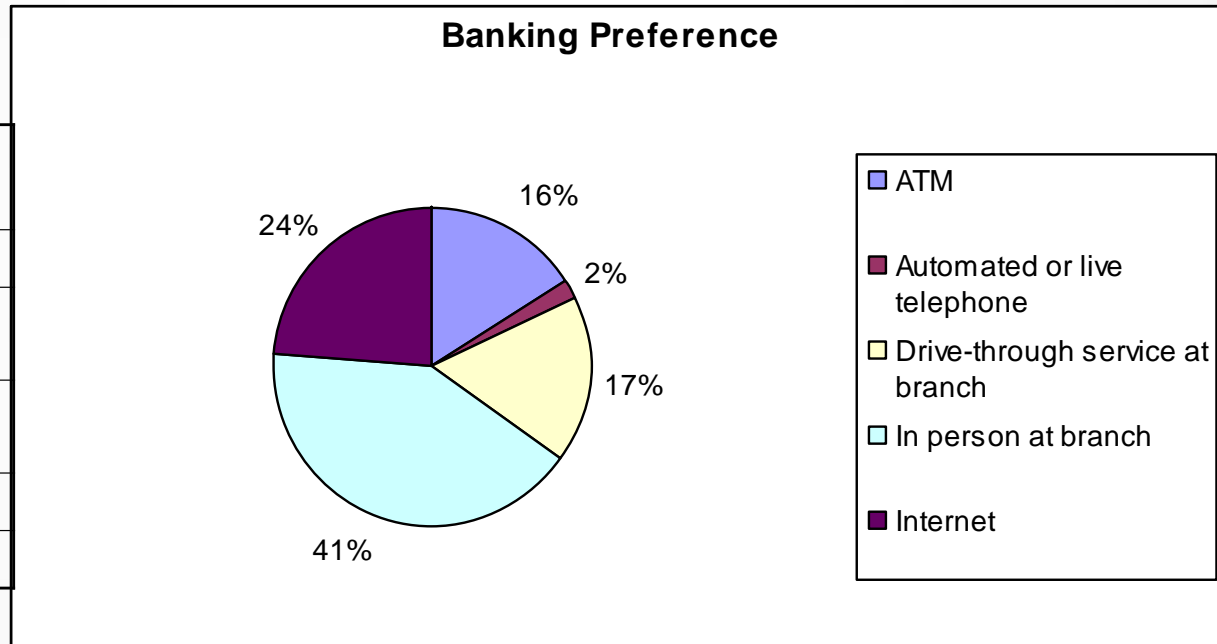
Data Kualitatif: Bar Chart

Banking Preference?	%
ATM	16%
Automated or live telephone	2%
Drive-through service at branch	17%
In person at branch	41%
Internet	24%



Data Kualitatif: Pie Chart

Banking Preference?	%
ATM	16%
Automated or live telephone	2%
Drive-through service at branch	17%
In person at branch	41%
Internet	24%



DATA KUANTITATIF

Data:

12, 13, 17, 21, 24, 24, 26, 27, 27, 30, 32, 35, 37, 38, 41, 43, 44, 46,
53, 58

Class	Frequency	Relative Frequency	Percentage
10 but less than 20	3	.15	15%
20 but less than 30	6	.30	30%
30 but less than 40	5	.25	25%
40 but less than 50	4	.20	20%
50 but less than 60	2	.10	10%
Total	20	1.00	100%

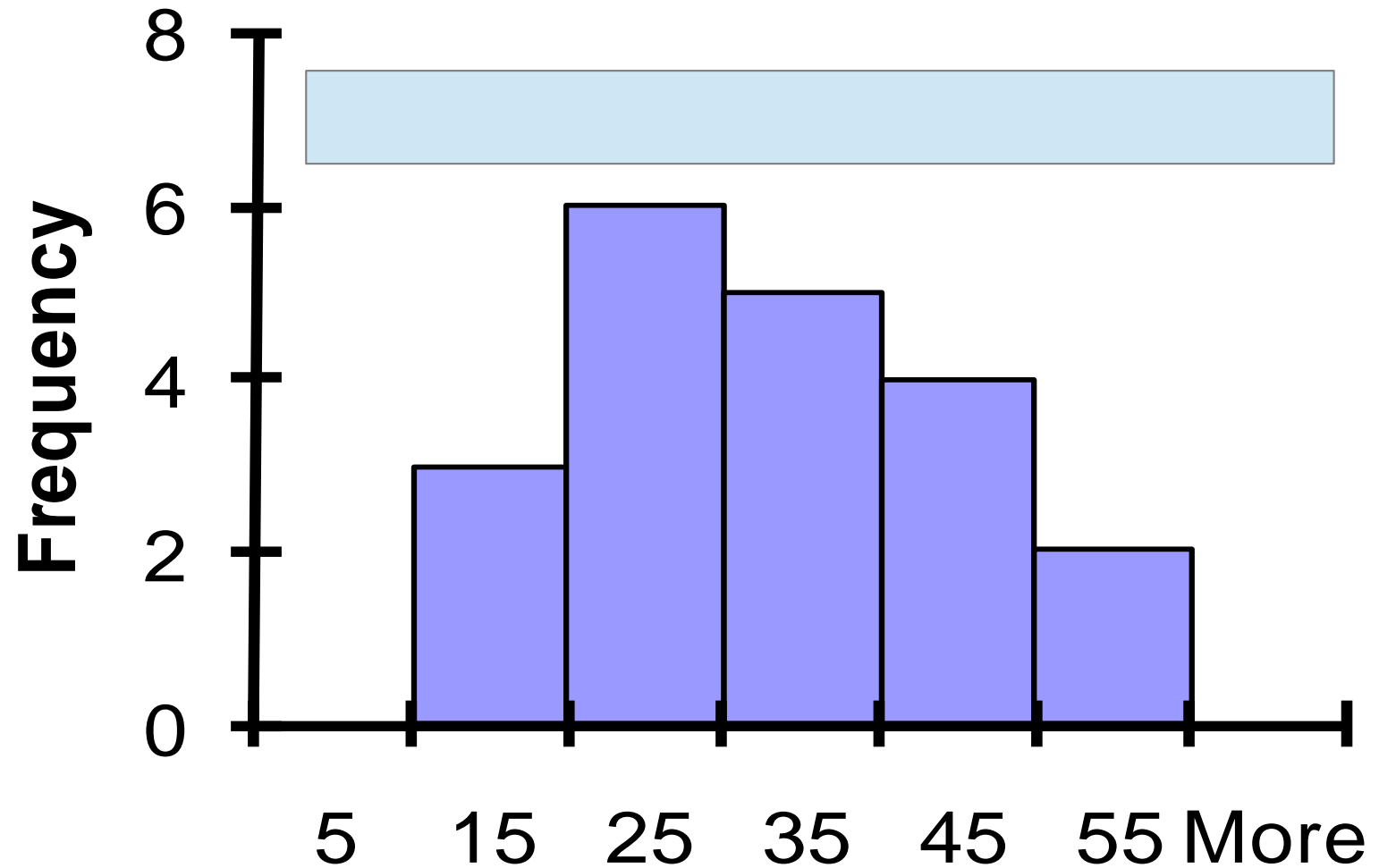
DATA KUANTITATIF

Data:

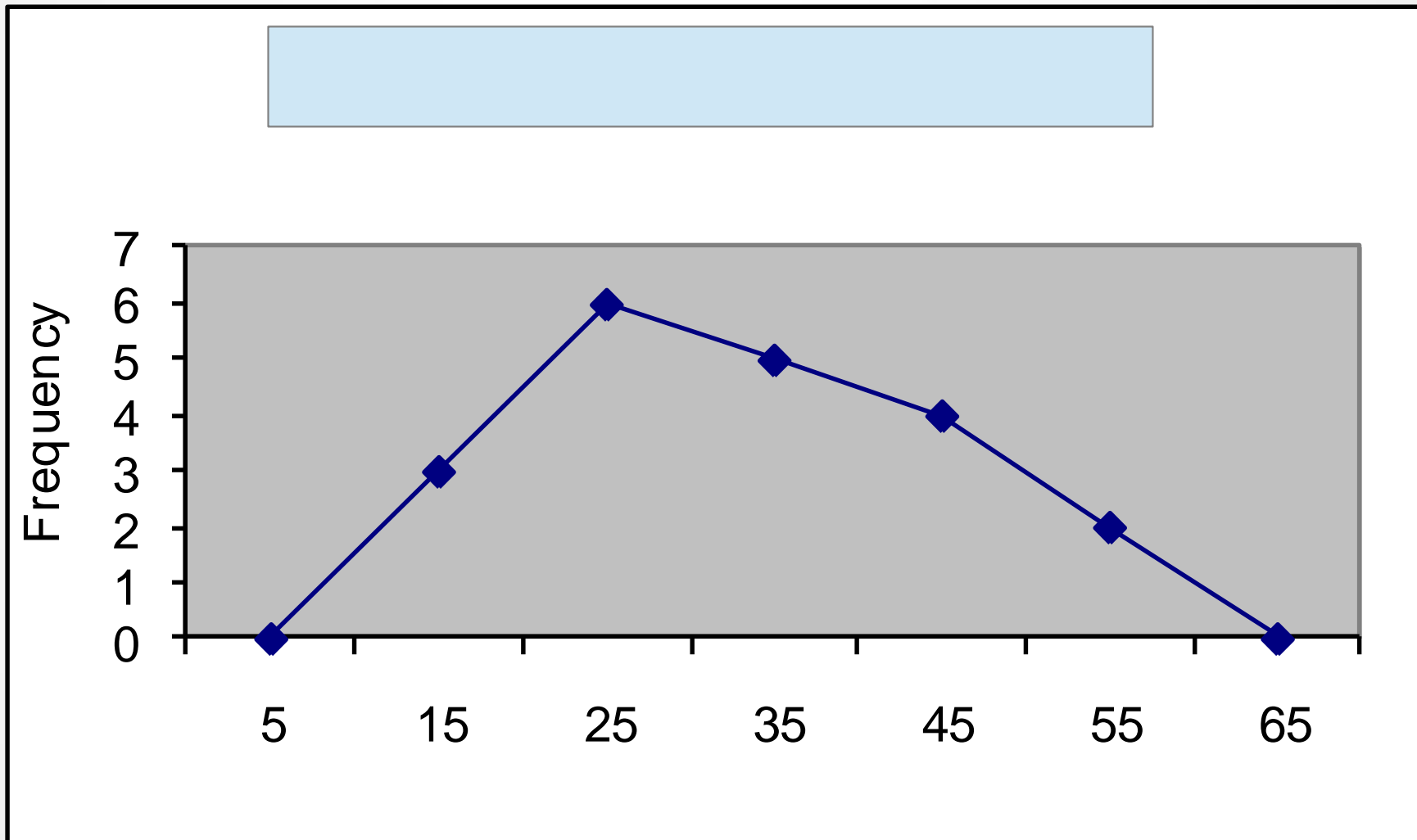
12, 13, 17, 21, 24, 24, 26, 27, 27, 30, 32, 35, 37, 38, 41, 43, 44, 46,
53, 58

Class	Frequency	Percentage	Cumulative Frequency	Cumulative Percentage
10 but less than 20	3	15%	3	15%
20 but less than 30	6	30%	9	45%
30 but less than 40	5	25%	14	70%
40 but less than 50	4	20%	18	90%
50 but less than 60	2	10%	20	100%
Total	20	100%	20	100%

Histogram

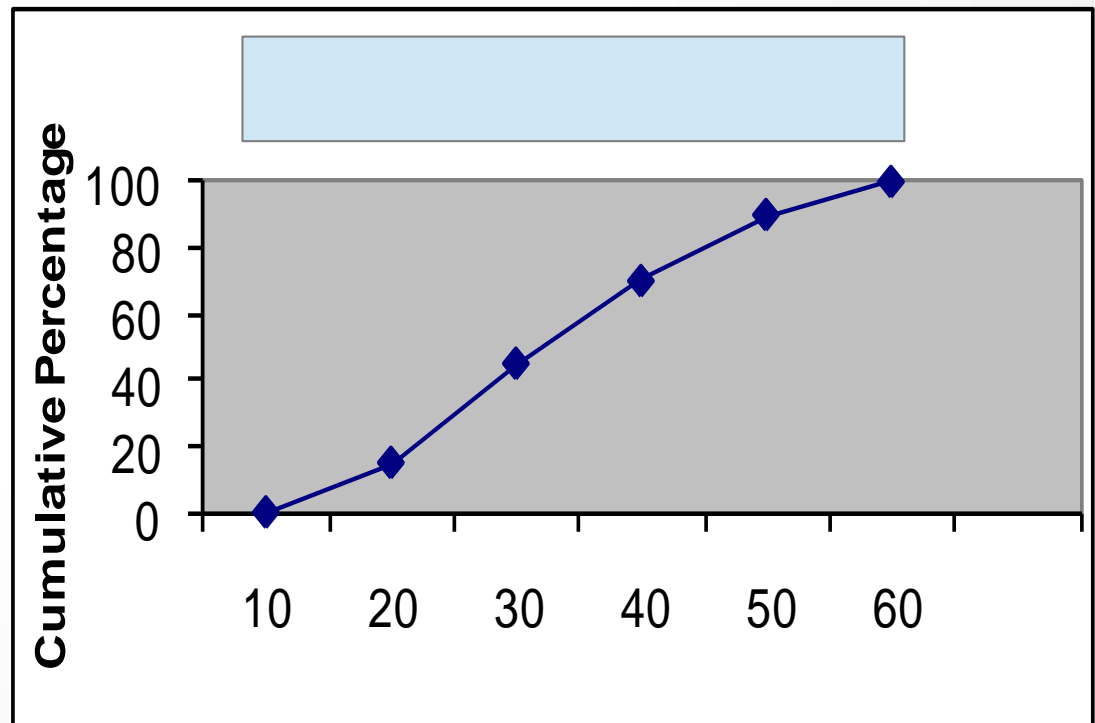


POLIGON FREKUENSI



Poligon Frekuensi Kumulatif

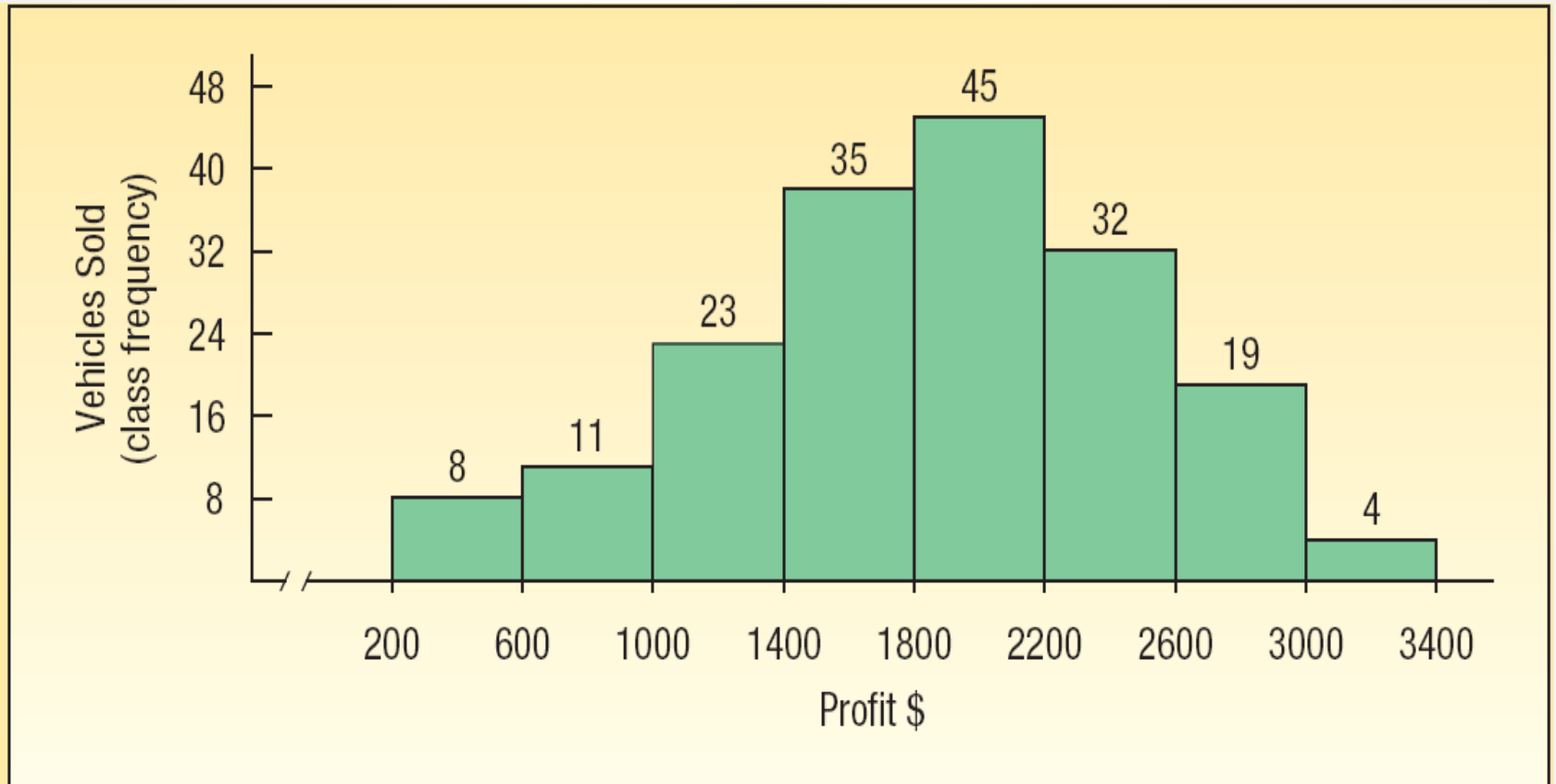
Class	Lower class boundary	% less than lower boundary
10 but less than 20	10	15
20 but less than 30	20	45
30 but less than 40	30	70
40 but less than 50	40	90
50 but less than 60	50	100



FREKUENSI RELATIF

Profit	Frequency	Relative Frequency	Found by
\$ 200 up to \$ 600	8	.044	8/180
600 up to 1,000	11	.061	11/180
1,000 up to 1,400	23	.128	23/180
1,400 up to 1,800	38	.211	38/180
1,800 up to 2,200	45	.250	45/180
2,200 up to 2,600	32	.178	32/180
2,600 up to 3,000	19	.106	19/180
3,000 up to 3,400	4	.022	4/180
Total	<u>180</u>	<u>1.000</u>	

HISTOGRAM



Jumlah kelas dan interval

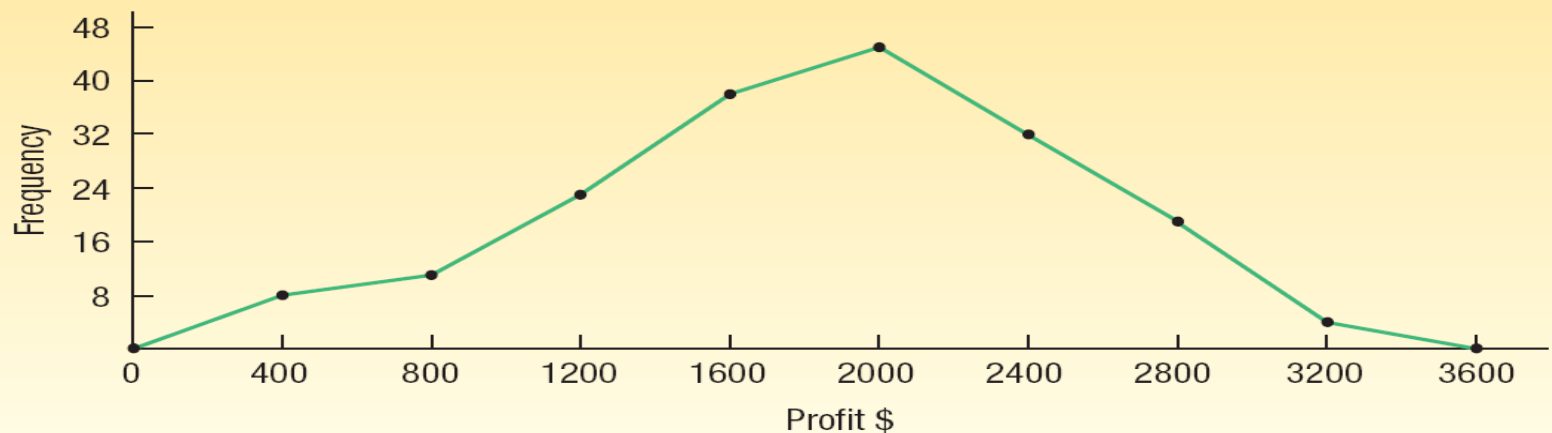
**Menentukan jumlah kelas k:
Ambil harga k terkecil sehingga $2^k > n$,
Dengan $n =$ jumlah data.**

**Menentukan interval I
 $I = (H-L)/k$**

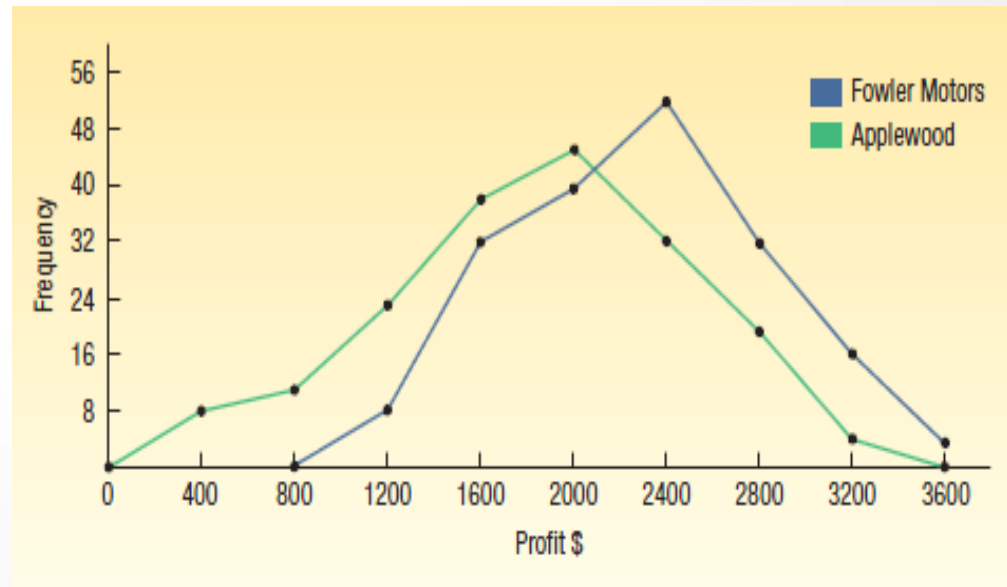
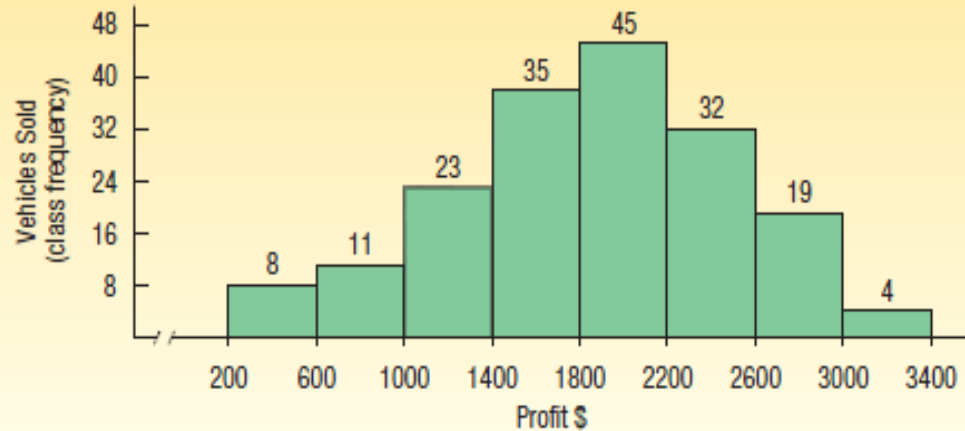
CTT: Jangan lupa lakukan pembulatan seperlunya

POLIGON FREKUENSI

Profit	Midpoint	Frequency
\$ 200 up to \$ 600	\$ 400	8
600 up to 1,000	800	11
1,000 up to 1,400	1,200	23
1,400 up to 1,800	1,600	38
1,800 up to 2,200	2,000	45
2,200 up to 2,600	2,400	32
2,600 up to 3,000	2,800	19
3,000 up to 3,400	3,200	4
Total		180



Histogram vs Poligon Frekuensi



Distribusi Frekuensi Kumulatif

PENJUALAN MOBIL DALAM SEBULAN

Profit	Frequency	Cumulative Frequency	Found by
\$ 200 up to \$ 600	8	8	8
600 up to 1,000	11	19	8 + 11
1,000 up to 1,400	23	42	8 + 11 + 23
1,400 up to 1,800	38	80	8 + 11 + 23 + 30
1,800 up to 2,200	45	125	8 + 11 + 23 + 30 + 45
2,200 up to 2,600	32	157	8 + 11 + 23 + 30 + 45 + 32
2,600 up to 3,000	19	176	8 + 11 + 23 + 30 + 45 + 32 + 19
3,000 up to 3,400	4	180	8 + 11 + 23 + 30 + 45 + 32 + 19 + 4
Total	<u>180</u>		

Distribusi Frekuensi Kumulatif

