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1. 1. Kuantitatif, rasio
2. Kualitatif, nominal
3. Kuantitatif, rasio
4. Kualitatif, nominal
5. Kuantitatif, rasio
6. Kuantitatif, interval
7. Kuantitatif, rasio
8. Kuantitatif, rasio
9. Kuantitatif, rasio
10. Kuantitatif, rasio
11. Kualitatif, Ordinal

2. 11, 19, 28, 29, 30, 35, 35, 42, 71, 76, 77, 97, 102, 110, 125, 158, 192, 201, 295, 521

$Q_1 = \frac{30+35}{2} = 32,5$ $Q_2 =$ median $= 76,5$ $Q_3 = \frac{125+158}{2} = 141,5$

$IQR = 141,5 - 32,5 = \boxed{109}$ $P_{45} \Rightarrow \frac{45}{100}(20+1)$

$= \frac{9}{20}(21) = \frac{189}{20} = 9,45$

P_{45} = angka ke-9 + 0,45 (angka ke-10 − angka ke-9)

= 71 + 0,45 (5) = $\boxed{73,25}$

3. 13.9, 15.0, 17.4, 17.6, 18.4, 19.1, 21.6, 22.1, 25.7, 27.4, 29.1, 30.7, 31.1, 32.7, 38.9

mean: $\frac{360.7}{15} = \boxed{24,04}$ median: $\boxed{22.1}$

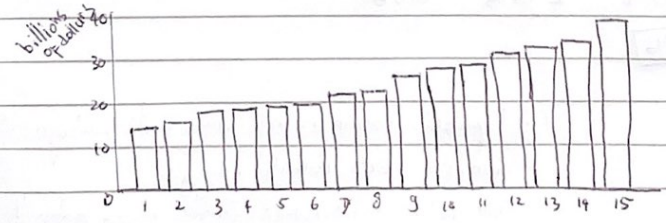
St. Dev: $S^2 = \frac{\sum (x_i - \bar{x})^2}{N-1} = \frac{(13,9-24,04)^2 + (15-24,04)^2 + (17,4-24,04)^2 + \ldots + (38.9-24,04)^2}{14}$

$= \frac{102,8 + 81,7 + 44,08 + 41,4 + 31,8 + 24,4 + 5,9 + 3,7 + 2,7 + 11,2 + 25,6 + 44,3 + 49,8 + 74,9 + 220,8}{14}$

$= \frac{761,38}{14} = 54,38$

$\sqrt{S^2} = \sqrt{54,38} = \boxed{7,3}$

Bar graph: Top 15 Private Equity Deals of All Time



KIKY

4. $M = \frac{122+140+127+107+120+101+122+132+120+127+127+127+127+116+120+128+140+140+127+160+130+157+124}{23}$

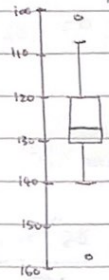
$= \frac{2921}{23} = \boxed{127}$

$\sigma^2 = \frac{(122-127)^2 + (140-127)^2 + (127-127)^2 + \dots + (124-127)^2}{23}$

$= \frac{3014}{23} = \boxed{131,04}$

$\sigma = \sqrt{131,04} = \boxed{11,447}$

Box plot



outliers: 101, 157

5. $P(\text{Tersedia}) = 0,96$

$P(\text{Tidak tersedia}) = 0,04$

(a) $0,04 \times 0,04 = 0,0016$

(b) $1 - 0,0016 = 0,0094$

6. $P(L) \rightarrow$ membeli lateks — $P(L) = 0,75 \rightarrow P(S) = 1-0,75 = 0,25$

$P(S) \rightarrow$ membeli semigloss — $P(R|L) = 0,6$

$P(R) \rightarrow$ membeli roller — $P(R|S) = 0,3$

Ditanya: $P($

$P(R) = \overbrace{0,6 \times 0,75}^{P(L \cap R)} + 0,3 \times 0,25$

$= 0,45 + 0,075 = 0,525$

$P(L|R) = \frac{P(L \cap R)}{P(R)}$

$= \frac{0,45}{0,525} = \boxed{0,85}$

7. $P(\text{Kanker}) = 0,05$, $P(\text{tak kanker}) = 0,95$, $P(\text{diagnosa kanker} \mid \text{kanker}) = 0,78$, $P(\text{diagnosa kanker} \mid \text{tak kanker}) = 0,06$

$P(K)$ $P(TK)$ $P(DK|K)$ $P(DK|TK)$

$\rightarrow P(DK \cap K) + P(DK \cap TK) = P(K) \cdot P(DK|K) + P(TK) \cdot P(DK|TK)$

$= 0,05 \cdot 0,78 + 0,95 \cdot 0,06$

$= \boxed{0,096}$

8. (a) Populasi: baterai yang dihasilkan

Sampel : 25 produk

Variabel: ukuran diameter

Skala : Interval

(b) Populasi : semua rumah tangga di Surabaya

Sampel : 200 rumah tangga

Variabel : status rumah tangga punya jaman/tidak

Skala : Nominal