

4.1. Media aritmetică

Fie X o caracteristică statistică cantitativă și o selecție de n valori distincte x_1, x_2, \dots, x_n . Mărimea $\bar{x} = \frac{1}{n} \sum_{i=1}^n x_i$ se numește *medie aritmetică* (simplă) a lui X .

Dacă *datele selecției sunt grupate pe variante*, atunci media aritmetică se definește astfel:

$$\bar{x} = \frac{1}{n} \sum_{i=1}^k x_i n_i, \text{ unde } \sum_{i=1}^k n_i = n.$$

Dacă *datele selecției sunt grupate pe intervale*, atunci media aritmetică se definește astfel:

$$\bar{x} = \frac{1}{n} \sum_{i=1}^k x_i^* n_i, \text{ unde } x_i^* \text{ este mijlocul intervalului } i.$$

În ultimele două cazuri, \bar{x} se numește *medie aritmetică ponderată* a lui X .

Exemple

1 Pentru datele din tabelul 1 obținem:

$$\bar{x} = \frac{5 \cdot 8 + 10 \cdot 10 + 15 \cdot 11 + 11 \cdot 12 + 2 \cdot 14 + 3 \cdot 16 + 4 \cdot 17}{50} = 11,62 \text{ (probleme),}$$

ceea ce înseamnă că numărul mediu de probleme rezolvate de un elev este 11,62. Putem trage concluzia că 30 de elevi (dîn 50) au rezultate sub medie.

2 Pentru datele din tabelul 4 obținem:

$$\bar{x} = \frac{9,14 \cdot 3 + 11,4 \cdot 7 + 13,4 \cdot 13 + 15,4 \cdot 21 + 17,4 \cdot 17 + 19,4 \cdot 2 + 21,4 \cdot 2}{65} = 15,11.$$

Media aritmetică este o valoare tipică importantă, care ne ajută să trecem la etapele următoare ale cercetării statistice, în special la comparații (compararea mediei unei caracteristici în două populații statistice).

Uneori, media aritmetică poate ascunde o realitate. Fie, de exemplu, 8, 2, 7, 7, 1 notele a 5 elevi obținute la o teză. Aici $\bar{x} = 5$, adică fiecare elev are, în medie, o notă trecătoare, ceea ce nu corespunde realității.

Pentru completarea analizei seriilor statistice, pe lângă media aritmetică, se utilizează valorile unor variante concrete, care ocupă în șirul datelor ordonate (crescător sau descrescător) anumite poziții. În primul rând, aici se are în vedere *mediانا* și *modul seriei statistice*.

4.2. Mediana

4.2.1. Mediana unei succesiuni de numere

Mediana (Me) a unei succesiuni de n numere, ordonate crescător sau descrescător, este *numărul care se află la mijlocul succesiunii*.

Dacă succesiunea conține un număr impar de variante, atunci mediana este chiar termenul central. Pentru o succesiune cu un număr par de variante, mediana este media aritmetică a celor doi termeni centrali. De exemplu, pentru succesiunea 2, 3, 3, 4, 6, 7, 8, 10, 10 avem $Me = 6$, iar pentru succesiunea 1, 2, 2, 4, 7, 9, 9, 10 avem $Me = \frac{4+7}{2} = 5,5$.

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