

Выборочный коэффициент ранговой корреляции Кендалла

Два эксперта X и Y выставили оценки десяти образцам продукции завода. Найти выборочный коэффициент корреляции Кендалла τ_B между их оценками.¹

Задача 45.1. *Базанович Иван*

$X = [47, 43, 41, 32, 34, 37, 29, 26, 22, 18]$

$Y = [54, 42, 29, 19, 59, 24, 64, 36, 12, 47]$

$\tau_B = ?$

Задача 45.2. *Беленов Степан*

$X = [47, 43, 40, 29, 33, 31, 36, 26, 22, 19]$

$Y = [23, 47, 44, 18, 58, 64, 37, 10, 53, 29]$

$\tau_B = ?$

Задача 45.3. *Дони Владлен*

$X = [45, 44, 29, 37, 33, 31, 39, 25, 21, 19]$

$Y = [52, 24, 43, 36, 30, 64, 47, 12, 58, 17]$

$\tau_B = ?$

Задача 45.4. *Замашкин Валерий*

$X = [47, 43, 31, 37, 35, 40, 28, 25, 22, 18]$

$Y = [24, 54, 16, 35, 58, 63, 48, 13, 43, 29]$

$\tau_B = ?$

Задача 45.5. *Косогоров Алексей*

$X = [45, 42, 40, 27, 34, 31, 37, 25, 23, 20]$

$Y = [54, 13, 57, 36, 16, 49, 62, 44, 28, 23]$

$\tau_B = ?$

Задача 45.6. *Мальшев Илья*

$X = [46, 42, 40, 30, 35, 37, 27, 24, 22, 20]$

$Y = [52, 12, 43, 49, 36, 58, 18, 29, 62, 23]$

$\tau_B = ?$

Задача 45.7. *Мордин Антон*

$X = [47, 42, 40, 28, 35, 32, 37, 25, 23, 19]$

$Y = [24, 42, 63, 12, 17, 57, 37, 49, 28, 54]$

$\tau_B = ?$

Задача 45.8. *Носенко Алексей*

$X = [46, 43, 40, 28, 34, 31, 37, 25, 23, 19]$

$Y = [57, 37, 64, 53, 48, 19, 29, 12, 25, 43]$

$\tau_B = ?$

Задача 45.9. *Хурэлбаатар Очхуу*

$X = [45, 43, 27, 38, 34, 31, 40, 25, 22, 18]$

$Y = [54, 31, 43, 34, 62, 18, 48, 13, 22, 57]$

$\tau_B = ?$

Задача 45.10. *Рейханов Людвиг*

$X = [46, 44, 32, 38, 35, 41, 29, 25, 22, 20]$

$Y = [59, 24, 12, 43, 53, 30, 64, 38, 49, 16]$

$\tau_B = ?$

Задача 45.11. *Стручков Юрий*

$X = [45, 43, 32, 37, 34, 40, 29, 26, 23, 20]$

$Y = [54, 17, 11, 23, 63, 49, 34, 59, 31, 43]$

$\tau_B = ?$

Задача 45.12. *Учаев Роман*

$X = [46, 43, 27, 36, 33, 31, 40, 24, 21, 18]$

$Y = [57, 29, 23, 62, 52, 43, 47, 17, 11, 38]$

$\tau_B = ?$

¹Гмурман В.Е. Руководство к решению задач по теории вероятностей и математической статистике. М.:1969. с. 204.

Задача 45.13. *Шестаков Виктор*

$$X = [45, 42, 39, 28, 34, 30, 37, 25, 22, 19]$$

$$Y = [52, 23, 42, 12, 58, 49, 62, 29, 34, 17]$$

τ_B — ?

Задача 45.14. *Пахомов В. А.*

$$X = [45, 43, 30, 36, 34, 41, 28, 26, 22, 19]$$

$$Y = [53, 44, 31, 23, 62, 48, 12, 36, 59, 18]$$

τ_B — ?

Задача 45.15. *Дагиянов О.*

$$X = [45, 44, 31, 37, 35, 41, 28, 26, 22, 18]$$

$$Y = [16, 63, 54, 24, 59, 48, 43, 14, 35, 30]$$

τ_B — ?

Задача 45.16. *Ерзунов И.А.*

$$X = [46, 43, 41, 32, 34, 37, 29, 26, 23, 19]$$

$$Y = [59, 16, 29, 64, 48, 25, 42, 12, 54, 37]$$

τ_B — ?

Задача 45.17. *Dai Qiao*

$$X = [46, 43, 40, 28, 34, 30, 37, 26, 23, 20]$$

$$Y = [11, 49, 58, 37, 25, 53, 63, 28, 43, 18]$$

τ_B — ?

Задача 45.18. *Арманду Э.*

$$X = [47, 43, 39, 27, 34, 30, 37, 25, 22, 19]$$

$$Y = [63, 48, 44, 11, 57, 21, 35, 53, 30, 19]$$

τ_B — ?

Задача 45.19. *Сунь Цзясюань*

$$X = [47, 44, 31, 38, 34, 40, 27, 24, 21, 18]$$

$$Y = [48, 53, 23, 63, 58, 36, 18, 12, 29, 42]$$

τ_B — ?