

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. *Абалимов Александр*

$X = [47, 43, 41, 36, 35, 30, 27, 25, 23, 19]$

$Y = [25, 49, 63, 42, 58, 16, 12, 29, 37, 53]$

$\tau_B = ?$

Задача 45.2. *Антощенкова Анастасия*

$X = [46, 44, 40, 37, 35, 30, 27, 25, 23, 20]$

$Y = [19, 54, 49, 37, 57, 13, 44, 63, 30, 23]$

$\tau_B = ?$

Задача 45.3. *Безруков Игорь*

$X = [45, 43, 40, 37, 34, 31, 27, 24, 22, 20]$

$Y = [52, 30, 43, 34, 62, 13, 17, 49, 58, 23]$

$\tau_B = ?$

Задача 45.4. *Безязыков Александр*

$X = [46, 43, 40, 37, 34, 31, 28, 26, 22, 18]$

$Y = [54, 24, 43, 35, 62, 17, 58, 28, 13, 47]$

$\tau_B = ?$

Задача 45.5. *Габбасова Камилла*

$X = [45, 44, 40, 36, 35, 30, 28, 26, 23, 20]$

$Y = [12, 63, 44, 25, 59, 53, 36, 30, 49, 17]$

$\tau_B = ?$

Задача 45.6. *Дворский Андрей*

$X = [46, 44, 41, 37, 35, 30, 28, 25, 21, 19]$

$Y = [25, 52, 48, 30, 59, 37, 13, 18, 63, 44]$

$\tau_B = ?$

Задача 45.7. *Демидов Александр*

$X = [45, 44, 39, 37, 33, 31, 28, 25, 22, 18]$

$Y = [54, 17, 43, 57, 28, 64, 47, 35, 11, 24]$

$\tau_B = ?$

Задача 45.8. *Дробчик Георгий*

$X = [47, 43, 40, 37, 34, 30, 27, 25, 23, 19]$

$Y = [19, 48, 63, 42, 57, 25, 54, 12, 28, 35]$

$\tau_B = ?$

Задача 45.9. *Кирпин Валерий*

$X = [46, 43, 39, 37, 33, 30, 28, 26, 23, 20]$

$Y = [58, 18, 44, 34, 54, 30, 10, 62, 22, 48]$

$\tau_B = ?$

Задача 45.10. *Королева Татьяна*

$X = [47, 43, 40, 37, 34, 31, 28, 24, 21, 18]$

$Y = [29, 53, 63, 37, 58, 23, 16, 43, 13, 47]$

$\tau_B = ?$

Задача 45.11. *Кузнецов Степан*

$X = [46, 44, 40, 37, 34, 30, 28, 25, 22, 20]$

$Y = [23, 53, 44, 63, 59, 11, 36, 49, 31, 18]$

$\tau_B = ?$

Задача 45.12. *Майков Дмитрий*

$X = [46, 43, 40, 36, 35, 30, 27, 24, 22, 19]$

$Y = [52, 57, 49, 43, 62, 29, 12, 37, 26, 17]$

$\tau_B = ?$

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

Задача 45.13. *Нессанс Эдгар Матъяс*

$X = [46, 43, 40, 36, 33, 32, 29, 25, 22, 20]$

$Y = [59, 22, 52, 35, 48, 44, 11, 29, 64, 16]$

$\tau_B = ?$

Задача 45.14. *Ромич Антон*

$X = [45, 43, 40, 37, 33, 31, 28, 25, 21, 18]$

$Y = [22, 47, 58, 42, 28, 53, 15, 37, 12, 63]$

$\tau_B = ?$

Задача 45.15. *Солдатов Александр*

$X = [46, 43, 40, 37, 34, 32, 29, 25, 22, 19]$

$Y = [59, 22, 35, 49, 52, 43, 13, 32, 63, 16]$

$\tau_B = ?$

Задача 45.16. *Толмачёв Никита*

$X = [46, 43, 40, 38, 34, 30, 28, 26, 22, 19]$

$Y = [19, 47, 58, 29, 23, 54, 63, 14, 44, 36]$

$\tau_B = ?$

Задача 45.17. *Толушкин Ростислав*

$X = [46, 43, 41, 38, 34, 30, 27, 24, 21, 19]$

$Y = [53, 48, 63, 43, 58, 22, 11, 29, 35, 19]$

$\tau_B = ?$

Задача 45.18. *Трифонов Дмитрий*

$X = [46, 43, 40, 37, 35, 32, 28, 25, 23, 20]$

$Y = [57, 32, 63, 43, 53, 12, 37, 49, 24, 19]$

$\tau_B = ?$

Задача 45.19. *Чумаков Иван*

$X = [46, 43, 40, 36, 34, 31, 28, 24, 21, 19]$

$Y = [58, 64, 43, 30, 47, 23, 52, 11, 36, 17]$

$\tau_B = ?$

Задача 45.20. *Шибанов Сергей*

$X = [46, 44, 39, 37, 34, 30, 28, 26, 23, 19]$

$Y = [36, 63, 43, 58, 17, 54, 10, 29, 22, 49]$

$\tau_B = ?$

Задача 45.21.

$X = [46, 43, 39, 36, 33, 31, 27, 24, 21, 19]$

$Y = [52, 31, 47, 35, 62, 57, 23, 12, 44, 18]$

$\tau_B = ?$

Задача 45.22.

$X = [45, 44, 41, 38, 34, 32, 29, 25, 21, 18]$

$Y = [53, 48, 59, 42, 23, 64, 18, 12, 35, 31]$

$\tau_B = ?$

Задача 45.23.

$X = [45, 44, 40, 37, 34, 32, 29, 26, 22, 19]$

$Y = [53, 44, 31, 25, 35, 64, 19, 13, 47, 59]$

$\tau_B = ?$

Задача 45.24.

$X = [45, 43, 41, 36, 34, 31, 29, 25, 21, 18]$

$Y = [52, 35, 42, 64, 23, 48, 59, 10, 29, 18]$

$\tau_B = ?$