

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. *Алексахин Антон*
 $X = [45, 44, 41, 38, 33, 32, 28, 24, 22, 20]$
 $Y = [53, 18, 37, 58, 31, 64, 12, 48, 22, 43]$
 $\tau_B = ?$

Задача 45.2. *Балов Артём Игоревич*
 $X = [46, 44, 40, 37, 34, 31, 28, 25, 21, 19]$
 $Y = [24, 53, 44, 28, 59, 35, 17, 13, 63, 47]$
 $\tau_B = ?$

Задача 45.3. *Белоусов Георгий Михайлович*
 $X = [46, 43, 41, 38, 33, 32, 29, 26, 22, 18]$
 $Y = [59, 30, 54, 24, 47, 16, 37, 43, 13, 64]$
 $\tau_B = ?$

Задача 45.4. *Бондаренко Андрей*
 $X = [46, 42, 41, 36, 33, 31, 28, 25, 23, 20]$
 $Y = [17, 48, 63, 35, 23, 53, 11, 43, 58, 29]$
 $\tau_B = ?$

Задача 45.5. *Гильманов Булат Наильевич*
 $X = [45, 42, 41, 36, 34, 32, 28, 25, 23, 19]$
 $Y = [53, 17, 63, 35, 23, 49, 11, 42, 58, 30]$
 $\tau_B = ?$

Задача 45.6. *Егоров Всеволод Кириллович*
 $X = [46, 43, 40, 36, 33, 30, 28, 25, 21, 19]$
 $Y = [52, 44, 47, 58, 62, 23, 30, 11, 36, 16]$
 $\tau_B = ?$

Задача 45.7. *Журавлева Анастасия*
 $X = [46, 42, 41, 38, 34, 32, 29, 26, 23, 20]$
 $Y = [48, 63, 59, 25, 17, 54, 12, 28, 35, 43]$
 $\tau_B = ?$

Задача 45.8.
 $X = [46, 43, 41, 38, 34, 32, 29, 25, 21, 19]$
 $Y = [59, 25, 29, 43, 47, 64, 18, 11, 53, 36]$
 $\tau_B = ?$

Задача 45.9. *Зубрильчев Даниил*
 $X = [46, 43, 40, 36, 34, 31, 28, 25, 22, 19]$
 $Y = [24, 48, 64, 43, 28, 53, 12, 57, 35, 16]$
 $\tau_B = ?$

Задача 45.10. *Изотов Роман Игоревич*
 $X = [45, 43, 40, 36, 35, 30, 28, 25, 22, 20]$
 $Y = [52, 24, 43, 34, 62, 13, 17, 29, 59, 49]$
 $\tau_B = ?$

Задача 45.11. *Луканин Александр Сергеевич*
 $X = [46, 44, 40, 36, 34, 32, 29, 26, 22, 18]$
 $Y = [64, 59, 31, 24, 47, 53, 18, 33, 14, 43]$
 $\tau_B = ?$

Задача 45.12. *Семенов Дмитрий Сергеевич*
 $X = [45, 42, 39, 37, 34, 32, 29, 26, 23, 19]$
 $Y = [54, 42, 58, 63, 17, 49, 11, 30, 22, 36]$
 $\tau_B = ?$

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

Задача 45.13.*Сен Субхам*

$$X = [47, 43, 39, 36, 35, 30, 27, 24, 21, 19]$$

$$Y = [29, 48, 44, 52, 57, 36, 14, 16, 63, 23]$$

$$\tau_B = ?$$

Задача 45.15.*Уткин Артем**Евгеньевич*

$$X = [46, 43, 41, 37, 33, 32, 29, 26, 22, 18]$$

$$Y = [59, 29, 53, 23, 47, 64, 19, 43, 11, 37]$$

$$\tau_B = ?$$

Задача 45.17.*Чернышев Егор**Вадимович*

$$X = [47, 43, 39, 37, 34, 31, 28, 25, 21, 18]$$

$$Y = [58, 29, 47, 62, 52, 24, 35, 19, 12, 42]$$

$$\tau_B = ?$$

Задача 45.19.

$$X = [46, 42, 40, 36, 33, 32, 29, 26, 22, 19]$$

$$Y = [58, 63, 53, 44, 24, 47, 15, 12, 35, 29]$$

$$\tau_B = ?$$

Задача 45.21.

$$X = [46, 43, 39, 37, 34, 31, 28, 24, 21, 18]$$

$$Y = [30, 63, 47, 57, 52, 43, 23, 18, 11, 35]$$

$$\tau_B = ?$$

Задача 45.14.*Степанова Светлана*

$$X = [47, 44, 40, 37, 34, 32, 29, 25, 21, 19]$$

$$Y = [23, 36, 48, 64, 59, 52, 11, 20, 31, 43]$$

$$\tau_B = ?$$

Задача 45.16. *Храпов Иван Николаевич*

$$X = [46, 44, 40, 36, 33, 31, 27, 25, 22, 19]$$

$$Y = [22, 63, 57, 34, 43, 53, 18, 11, 31, 47]$$

$$\tau_B = ?$$

Задача 45.18.

$$X = [46, 43, 41, 38, 34, 30, 27, 25, 23, 20]$$

$$Y = [18, 49, 63, 43, 58, 11, 38, 54, 23, 29]$$

$$\tau_B = ?$$

Задача 45.20.

$$X = [45, 42, 40, 38, 34, 30, 27, 24, 22, 19]$$

$$Y = [53, 20, 57, 43, 62, 48, 25, 12, 30, 35]$$

$$\tau_B = ?$$

Задача 45.22.

$$X = [47, 44, 40, 37, 33, 30, 28, 26, 22, 19]$$

$$Y = [28, 54, 43, 22, 59, 17, 47, 11, 35, 63]$$

$$\tau_B = ?$$