

## Ранговая корреляция Спирмена

Два эксперта  $X$  и  $Y$  выставили оценки десяти образцам продукции завода. Найти выборочный коэффициент корреляции Спирмена  $\rho_B$  между их оценками. <sup>1</sup>

**Задача 44.1.** *Баханович Иван*

$X = [46, 27, 41, 37, 34, 30, 43, 24, 22, 20]$

$Y = [58, 52, 62, 44, 23, 12, 48, 31, 35, 17]$

**Задача 44.2.** *Беленов Степан*

$X = [46, 35, 39, 37, 44, 30, 28, 25, 22, 20]$

$Y = [58, 24, 43, 31, 53, 11, 17, 35, 49, 63]$

**Задача 44.3.** *Дони Владлен*

$X = [45, 44, 33, 36, 40, 31, 28, 25, 23, 20]$

$Y = [53, 64, 30, 58, 44, 18, 11, 35, 23, 48]$

**Задача 44.4.** *Замашкин Валерий*

$X = [46, 30, 41, 37, 34, 42, 28, 26, 22, 18]$

$Y = [59, 18, 62, 24, 30, 48, 36, 11, 42, 54]$

**Задача 44.5.** *Косогооров Алексей*

$X = [47, 43, 30, 36, 33, 40, 28, 26, 22, 18]$

$Y = [58, 53, 16, 23, 63, 47, 29, 13, 42, 35]$

**Задача 44.6.** *Мальшев Илья*

$X = [46, 44, 34, 38, 39, 31, 28, 25, 23, 20]$

$Y = [54, 64, 17, 57, 48, 13, 37, 44, 31, 21]$

**Задача 44.7.** *Мордин Антон*

$X = [46, 44, 34, 37, 40, 31, 28, 26, 23, 20]$

$Y = [58, 54, 31, 23, 34, 14, 63, 48, 44, 17]$

**Задача 44.8.** *Носенко Алексей*

$X = [45, 43, 41, 27, 34, 31, 38, 25, 22, 18]$

$Y = [54, 47, 36, 13, 19, 58, 62, 32, 23, 42]$

**Задача 44.9.** *Хурэлбаатар Очхуу*

$X = [46, 43, 29, 37, 35, 31, 41, 25, 21, 19]$

$Y = [59, 48, 13, 24, 52, 19, 30, 44, 35, 63]$

**Задача 44.10.** *Рейханов Людвиг*

$X = [46, 30, 40, 37, 34, 44, 27, 24, 22, 20]$

$Y = [58, 17, 49, 29, 63, 52, 11, 36, 23, 43]$

**Задача 44.11.** *Стручков Юрий*

$X = [45, 43, 31, 36, 34, 39, 29, 26, 23, 20]$

$Y = [53, 64, 17, 28, 24, 44, 11, 49, 36, 58]$

**Задача 44.12.** *Учаев Роман*

$X = [47, 42, 31, 37, 33, 40, 28, 25, 22, 20]$

$Y = [58, 62, 18, 25, 52, 44, 11, 35, 48, 27]$

**Задача 44.13.** *Шестаков Виктор*

$X = [46, 43, 30, 38, 34, 40, 27, 24, 21, 18]$

$Y = [53, 63, 16, 57, 23, 48, 36, 13, 42, 29]$

**Задача 44.14.** *Пахомов В. А.*

$X = [46, 43, 32, 37, 33, 40, 29, 26, 22, 19]$

$Y = [54, 36, 17, 24, 30, 43, 58, 12, 64, 47]$

<sup>1</sup>Гмурман В.Е. Руководство к решению задач по теории вероятностей и математической статистике. М.:1969. с. 202.

**Задача 44.15.** *Даггиянов О.*

$X = [45, 42, 40, 28, 34, 31, 37, 24, 22, 19]$

$Y = [52, 49, 58, 12, 63, 18, 27, 35, 24, 42]$

**Задача 44.16.** *Ерзунов И.А.*

$X = [45, 43, 31, 38, 33, 40, 28, 25, 22, 18]$

$Y = [54, 64, 57, 47, 17, 43, 34, 11, 24, 28]$

**Задача 44.17.** *Dai Qiao*

$X = [45, 44, 41, 35, 38, 32, 29, 25, 22, 20]$

$Y = [53, 64, 32, 36, 24, 13, 59, 44, 49, 20]$

**Задача 44.18.** *Арманду Э.*

$X = [46, 28, 40, 38, 35, 31, 43, 25, 22, 18]$

$Y = [57, 12, 30, 63, 17, 54, 48, 35, 24, 42]$

**Задача 44.19.** *Сунь Цзяюань*

$X = [45, 44, 40, 32, 35, 37, 29, 26, 23, 19]$

$Y = [53, 64, 31, 12, 18, 25, 58, 33, 49, 42]$