

Математическое ожидание и дисперсия дискретной случайной величины

Известно математическое ожидание и дисперсия случайной величины X и частично, закон ее распределения. Найти недостающие значения частот a и b .

Задача 32.1. Абалимов Александр

$$X = 4, 7, 11, 13, 16$$

$$p = b, 31, 47, a, 5$$

$$M(X) = 10.6260, D(X) = 7.3073$$

Задача 32.2. Антощенко Анастасия

$$X = 3, 7, 10, 13, 15$$

$$p = 7, 34, a, b, 4$$

$$M(X) = 9.7177, D(X) = 8.2832$$

Задача 32.3. Безруков Игорь

$$X = 3, 7, 10, 12, 17$$

$$p = b, 37, 47, a, 6$$

$$M(X) = 9.6142, D(X) = 8.0795$$

Задача 32.4. Безязыков Александр

$$X = 5, 7, 11, 13, 17$$

$$p = a, b, 48, 33, 5$$

$$M(X) = 10.1818, D(X) = 8.7851$$

Задача 32.5. Габбасова Камилла

$$X = 5, 6, 10, 12, 17$$

$$p = b, 31, 43, a, 6$$

$$M(X) = 9.6721, D(X) = 8.7777$$

Задача 32.6. Дворский Андрей

$$X = 3, 8, 11, 13, 15$$

$$p = b, 33, 45, a, 6$$

$$M(X) = 10.5760, D(X) = 7.1562$$

Задача 32.7. Демидов Александр

$$X = 4, 7, 9, 13, 15$$

$$p = b, 32, 45, a, 3$$

$$M(X) = 9.2750, D(X) = 7.8994$$

Задача 32.8. Дробчик Георгий

$$X = 5, 7, 9, 12, 17$$

$$p = b, 33, 46, a, 5$$

$$M(X) = 9.2160, D(X) = 7.0813$$

Задача 32.9. Кирпин Валерий

$$X = 3, 8, 10, 14, 17$$

$$p = b, 37, 46, a, 7$$

$$M(X) = 10.7087, D(X) = 8.8049$$

Задача 32.10. Королева Татьяна

$$X = 5, 8, 10, 14, 16$$

$$p = 5, a, b, 34, 8$$

$$M(X) = 10.6538, D(X) = 8.0725$$

Задача 32.11. Кузнецов Степан

$$X = 4, 7, 11, 13, 16$$

$$p = a, b, 44, 37, 9$$

$$M(X) = 10.4179, D(X) = 9.4224$$

Задача 32.12. Майков Дмитрий

$$X = 4, 8, 11, 13, 16$$

$$p = a, b, 44, 32, 10$$

$$M(X) = 10.8346, D(X) = 6.7994$$

Задача 32.13. Нессанс Эдгар Матъяс

$$X = 5, 6, 10, 14, 16$$

$$p = 4, 34, a, b, 4$$

$$M(X) = 10.1639, D(X) = 11.4157$$

Задача 32.14. Ромич Антон

$$X = 3, 7, 11, 13, 16$$

$$p = a, b, 47, 33, 4$$

$$M(X) = 10.1339, D(X) = 8.7616$$

Задача 32.15. *Солдатов Александр*

$$X = 4, 7, 11, 13, 17$$

$$p = 5, a, b, 33, 5$$

$$M(X) = 10.3802, D(X) = 8.7150$$

Задача 32.16. *Толмачёв Никита*

$$X = 5, 6, 10, 13, 17$$

$$p = 5, 31, a, b, 11$$

$$M(X) = 10.2195, D(X) = 11.7973$$

Задача 32.17. *Толушкин Ростислав*

$$X = 3, 7, 10, 12, 16$$

$$p = 1, 37, a, b, 7$$

$$M(X) = 9.9512, D(X) = 6.2903$$

Задача 32.18. *Трифонов Дмитрий*

$$X = 4, 8, 11, 14, 16$$

$$p = a, b, 49, 34, 5$$

$$M(X) = 10.8538, D(X) = 7.7402$$

Задача 32.19. *Чумаков Иван*

$$X = 4, 7, 9, 13, 17$$

$$p = a, b, 45, 32, 5$$

$$M(X) = 9.6475, D(X) = 8.2282$$

Задача 32.20. *Шибанов Сергей*

$$X = 4, 8, 10, 13, 16$$

$$p = 2, a, b, 36, 4$$

$$M(X) = 10.3281, D(X) = 5.3298$$

Задача 32.21.

$$X = 5, 7, 10, 12, 16$$

$$p = b, 34, 46, a, 9$$

$$M(X) = 9.7769, D(X) = 7.5118$$

Задача 32.22.

$$X = 4, 8, 9, 13, 15$$

$$p = 6, a, b, 33, 6$$

$$M(X) = 9.8468, D(X) = 6.7588$$

Задача 32.23.

$$X = 4, 8, 9, 12, 16$$

$$p = a, b, 41, 35, 9$$

$$M(X) = 9.8000, D(X) = 7.0720$$

Задача 32.24.

$$X = 4, 7, 9, 14, 15$$

$$p = 8, a, b, 38, 4$$

$$M(X) = 9.7969, D(X) = 10.5994$$

Задача 32.25.

$$X = 4, 7, 10, 12, 16$$

$$p = b, 37, 47, a, 5$$

$$M(X) = 9.7642, D(X) = 5.7412$$

Задача 32.26.

$$X = 4, 8, 9, 12, 16$$

$$p = a, b, 42, 30, 9$$

$$M(X) = 9.7258, D(X) = 6.5216$$

Задача 32.27.

$$X = 4, 8, 10, 13, 15$$

$$p = b, 38, 42, a, 3$$

$$M(X) = 9.8943, D(X) = 6.5173$$

Задача 32.28.

$$X = 3, 7, 10, 12, 15$$

$$p = b, 37, 42, a, 7$$

$$M(X) = 9.8197, D(X) = 6.0494$$