

Examrace

Statistics MCQs – Basic probability Part 11

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201. You are given the following probability distribution: $p(-1) = 0.4$, $p(2) = 0.25$, $p(3) = 0.15$ and $p(7) = 0.2$. What is $E(5X + 2)$?

- a. 12.5
- b. 11.8
- c. 14.5
- d. 17.0
- e. 12.3

Answer: B

202. You are given the following probability distribution: $p(-1) = 0.4$, $p(2) = 0.1$, $p(3) = 0.2$ and $p(7) = 0.3$. What is $E(5X + 2)$?

- a. 12.5
- b. 11.8
- c. 14.5
- d. 17.0
- e. 12.3

Answer: C

203. You are given the following probability distribution: $p(-1) = 0.1$, $p(2) = 0.4$, $p(3) = 0.3$ and $p(7) = 0.2$. What is $E(5X + 2)$?

- a. 12.5
- b. 11.8
- c. 14.5
- d. 17.0
- e. 12.3

Answer: D

204. You are given the following probability distribution: $p(-1) = 0.4$, $p(2) = 0.15$, $p(3) = 0.25$ and $p(7) = 0.2$. What is $E(5X + 2)$?

- a. 12.5
- b. 11.8
- c. 14.5
- d. 17.0
- e. 12.3

Answer: E

205. You are given the following probability distribution: $p(-1) = 0.4$, $p(2) = 0.1$, $p(3) = 0.3$ and $p(7) = 0.2$. What is $V(3X - 1)$?

- a. 80.0
- b. 78.7
- c. 99.5
- d. 46.8
- e. 79.6

Answer: A

206. You are given the following probability distribution: $p(-1) = 0.4$, $p(2) = 0.25$, $p(3) = 0.15$ and $p(7) = 0.2$. What is $V(3X - 1)$?

- a. 80.0
- b. 78.7
- c. 99.5
- d. 46.8
- e. 79.6

Answer: B

207. You are given the following probability distribution: $p(-1) = 0.4$, $p(2) = 0.1$, $p(3) = 0.2$ and $p(7) = 0.3$. What is $V(3X - 1)$?

- a. 80.0
- b. 78.7
- c. 99.5

d. 46.8

e. 79.6

Answer: C

208. You are given the following probability distribution: $p(-1) = 0.1$, $p(2) = 0.4$, $p(3) = 0.3$ and $p(7) = 0.2$. What is $V(3X - 1)$?

a. 80.0

b. 78.7

c. 99.5

d. 46.8

e. 79.6

Answer: D

209. You are given the following probability distribution: $p(-1) = 0.4$, $p(2) = 0.15$, $p(3) = 0.25$ and $p(7) = 0.2$. What is $V(3X - 1)$?

a. 80.0

b. 78.7

c. 99.5

d. 46.8

e. 79.6

Answer: E

210. You are given the following probability distribution: $p(-2) = 0.2$, $p(0) = 0.15$, $p(2) = 0.6$ and $p(4) = 0.05$. What is $E(4X - 1)$?

a. 3.00

b. 1.80

c. 3.32

d. 3.80

e. 6.60

Answer: A

211. You are given the following probability distribution: $p(-2) = 0.3$, $p(0) = 0.15$, $p(2) = 0.45$ and $p(4) = 0.1$. What is $E(4X - 1)$?

- a. 3.00
- b. 1.80
- c. 3.32
- d. 3.80
- e. 6.60

Answer: B

212. You are given the following probability distribution: $p(-2) = 0.15$, $p(0) = 0.2$, $p(2) = 0.61$ and $p(4) = 0.04$. What is $E(4X - 1)$?

- a. 3.00
- b. 1.80
- c. 3.32
- d. 3.80
- e. 6.60

Answer: C

213. You are given the following probability distribution: $p(-2) = 0.2$, $p(0) = 0.15$, $p(2) = 0.5$ and $p(4) = 0.15$. What is $E(4X - 1)$?

- a. 3.00
- b. 1.80
- c. 3.32
- d. 3.80
- e. 6.60

Answer: D

214. You are given the following probability distribution: $p(-2) = 0.05$, $p(0) = 0.15$, $p(2) = 0.6$ and $p(4) = 0.2$. What is $E(4X - 1)$?

- a. 3.00
- b. 1.80
- c. 3.32
- d. 3.80
- e. 6.60

Answer: E

215. You are given the following probability distribution: $p(-2) = 0.2$, $p(0) = 0.15$, $p(2) = 0.6$ and $p(4) = 0.05$. What is $V(2X + 3)$?

- a. 12.0
- b. 16.4
- c. 10.1
- d. 15.0
- e. 8.8

Answer: A

216. You are given the following probability distribution: $p(-2) = 0.3$, $p(0) = 0.15$, $p(2) = 0.45$ and $p(4) = 0.1$. What is $V(2X + 3)$?

- a. 12.0
- b. 16.4
- c. 10.1
- d. 15.0
- e. 8.8

Answer: B

217. You are given the following probability distribution: $p(-2) = 0.15$, $p(0) = 0.2$, $p(2) = 0.61$ and $p(4) = 0.04$. What is $V(2X + 3)$?

- a. 12.0
- b. 16.4
- c. 10.1
- d. 15.0
- e. 8.8

Answer: C

218. You are given the following probability distribution: $p(-2) = 0.2$, $p(0) = 0.15$, $p(2) = 0.5$ and $p(4) = 0.15$. What is $V(2X + 3)$?

- a. 12.0
- b. 16.4

c. 10.1

d. 15.0

e. 8.8

Answer: D

219. You are given the following probability distribution: $p(-2) = 0.05$, $p(0) = 0.15$, $p(2) = 0.6$ and $p(4) = 0.2$. What is $V(2X + 3)$?

a. 12.0

b. 16.4

c. 10.1

d. 15.0

e. 8.8

Answer: E

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