

Examrace

Statistics MCQs – Basic Probability Part 10

Doorsteptutor material for competitive exams is prepared by world's top subject experts: [get questions, notes, tests, video lectures and more](#)- for all subjects of your exam.

181. 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 $E(X)$?

- a. 1.00
- b. 0.70
- c. 1.08
- d. 1.20
- e. 1.90

Answer: B

182. 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 $E(X)$?

- a. 1.00
- b. 0.70
- c. 1.08
- d. 1.20
- e. 1.90

Answer: C

183. 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 $E(X)$?

- a. 1.00
- b. 0.70
- c. 1.08
- d. 1.20
- e. 1.90

Answer: D

184. 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 $E(X)$?

- a. 1.00
- b. 0.70
- c. 1.08
- d. 1.20
- e. 1.90

Answer: E

185. 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 the standard deviation of X ?

- a. 1.73
- b. 2.03
- c. 1.59
- d. 1.94
- e. 1.48

Answer: A

186. 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 the standard deviation of X ?

- a. 1.73
- b. 2.03
- c. 1.59
- d. 1.94
- e. 1.48

Answer: B

187. 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 the standard deviation of X ?

- a. 1.73
- b. 2.03
- c. 1.59
- d. 1.94

e. 1.48

Answer: C

188. 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 the standard deviation of X?

a. 1.73

b. 2.03

c. 1.59

d. 1.94

e. 1.48

Answer: D

189. 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 the standard deviation of X?

a. 1.73

b. 2.03

c. 1.59

d. 1.94

e. 1.48

Answer: E

190. If X and Y are random variables with $E(X) = 5$ and $E(Y) = 8$, then $E(2X + 3Y)$ is:

a. 34

b. 39

c. 26

d. 36

e. 40

Answer: A

191. If X and Y are random variables with $E(X) = 5$ and $E(Y) = 8$, then $E(3X + 3Y)$ is:

a. 34

b. 39

c. 26

d. 36

e. 40

Answer: B

192. If X and Y are random variables with $E(X) = 5$ and $E(Y) = 8$, then $E(2X + 2Y)$ is:

a. 34

b. 39

c. 26

d. 36

e. 40

Answer: C

193. If X and Y are random variables with $E(X) = 6$ and $E(Y) = 8$, then $E(2X + 3Y)$ is:

a. 34

b. 39

c. 26

d. 36

e. 40

Answer: D

194. If X and Y are random variables with $E(X) = 5$ and $E(Y) = 10$, then $E(2X + 3Y)$ is:

a. 34

b. 39

c. 26

d. 36

e. 40

Answer: E

195. If X and Y are random variables with $V(X) = 2$ and $V(Y) = 3$, then $V(2X + Y)$ is:

a. 11

b. 20.

c. 7

d. 16

e. 19

Answer: A

196. If X and Y are random variables with $V(X) = 2$ and $V(Y) = 3$, then $V(2X \text{ and } 2Y)$ is:

a. 11

b. 20.

c. 7

d. 16

e. 19

Answer: B

197. If X and Y are random variables with $V(X) = 1$ and $V(Y) = 3$, then $V(2X \text{ and } Y)$ is:

a. 11

b. 20.

c. 7

d. 16

e. 19

Answer: C

198. If X and Y are random variables with $V(X) = 1$ and $V(Y) = 3$, then $V(2X \text{ and } 2Y)$ is:

a. 11

b. 20.

c. 7

d. 16

e. 19

Answer: D

199. If X and Y are random variables with $V(X) = 4$ and $V(Y) = 3$, then $V(2X \text{ and } Y)$ is:

a. 11

b. 20.

c. 7

d. 16

e. 19

Answer: E

200. 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 $E(5X + 2)$?

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

Answer: A

Developed by: [Mindsprite Solutions](#)