

Examrace

Statistics MCQs – Continuous Distributions Part 12

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221. A statistical analysis of long-distance telephone calls indicates that the length of these calls is normally distributed with a mean of 240 seconds and a standard deviation of 40 seconds. What is the length of a particular call (in seconds) if only 5 % of calls are shorter?

- a. 146.95
- b. 157.85
- c. 174.21
- d. 333.05
- e. 305.79

Answer: C

222. A statistical analysis of long-distance telephone calls indicates that the length of these calls is normally distributed with a mean of 240 seconds and a standard deviation of 40 seconds. What is the length of a particular call (in seconds) if only 1 % of calls are longer?

- a. 146.95
- b. 157.85
- c. 174.21
- d. 333.05
- e. 305.79

Answer: D

223. A statistical analysis of long-distance telephone calls indicates that the length of these calls is normally distributed with a mean of 240 seconds and a standard deviation of 40 seconds. What is the length of a particular call (in seconds) if only 5 % of calls are longer?

- a. 146.95
- b. 157.85
- c. 174.21

d. 333.05

e. 305.79

Answer: E

224. If $X \sim N(\mu, 25)$ and $p(X > 12) = 0.3446$. What is the value of μ ?

a. 10.00

b. 5.90

c. 1.80

d. 8.05

e. 4.65

Answer: A

225. If $X \sim N(\mu, 25)$ and $p(X > 12) = 0.1112$. What is the value of μ ?

a. 10.00

b. 5.90

c. 1.80

d. 8.05

e. 4.65

Answer: B

226. If $X \sim N(\mu, 25)$ and $p(X > 12) = 0.0207$. What is the value of μ ?

a. 10.00

b. 5.90

c. 1.80

d. 8.05

e. 4.65

Answer: C

227. If $X \sim N(\mu, 25)$ and $p(X > 12) = 0.2148$. What is the value of μ ?

a. 10.00

b. 5.90

c. 1.80

d. 8.05

e. 4.65

Answer: D

228. If $X \sim N(\mu, 25)$ and $p(X > 12) = 0.0708$. What is the value of μ ?

a. 10.00

b. 5.90

c. 1.80

d. 8.05

e. 4.65

Answer: E

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