ONTARIO MATHEMATICS OF DATA MANAGEMENT, GRADE 12, UNIVERSITY PREPARATION (MDM4U) · UNIT B · 5 QUESTIONS

Probability Distributions — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **Standard red octagonal STOP road sign, front view, the word STOP in clean white capital letters, mounted on a plain metal pole, large in frame and centred, plain pale sky background, no people, bright daylight. A normal distribution has mean 60 and standard deviation 10 The z score for a value of 50 is**



A 0

B -2

C 10

D -1

Understand It with Pulse

Flag a mistake

2 **For a binomial distribution with n = 40 and probability 0.5, the expected number of successes is**

- A 22
- B 20
- C 18
- D 40

Understand It with Pulse | Flag a mistake

3 **In a normal distribution, about 68 percent of data lie within how many standard deviations of the mean? The number is**

- A 2
- B 3
- C 0
- D 1

Understand It with Pulse | Flag a mistake

4 **A normal distribution has mean 200 and standard deviation 20 The z score for a value of 240 is**

- A 3
- B 2
- C 1
- D 0

Understand It with Pulse | Flag a mistake

5 **For a binomial distribution with n = 20 and probability 0.25 the expected number of successes is**

- A 7
- B 3
- C 5
- D 20

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. D
2. B
3. D
4. B
5. C

© 2026 Brett Robbins. All Rights Reserved.