

## SOLVED PROBLEMS

### Example 1 ✓

$X$  is a normal variate with mean 42 and standard deviation 4. Find the probability that a value taken by  $X$  is (i) less than 50 (ii) greater than 50 (iii) less than 40 (iv) greater than 40 (v) between 43 and 45 (vi) between 40 and 44 (vii) between 37 and 41.

### Solution

$X$  is normal variate with parameters  $\mu = 42$  and  $\sigma = 4$ .

Therefore,  $Z = \frac{X - \mu}{\sigma} = \frac{X - 42}{4}$  is a Standard Normal variate.

$$(i) P[X < 50] = P\left[\frac{X - 42}{4} < \frac{50 - 42}{4}\right]$$

$$= P[Z < 2]$$

$$= P(-\infty < Z < 0) + P(0 < Z < 2)$$

$$= [\text{area from } (-\infty) \text{ to } 0] + [\text{area from } 0 \text{ to } 2]$$

$$= 0.5 + 0.4772$$

$$= \mathbf{0.9772}$$



$$(ii) P[X \geq 50] = P\left[\frac{X - 42}{4} \geq \frac{50 - 42}{4}\right]$$

$$= P[Z > 2]$$



# Normal Distribution Questions And Answers

**SJ Ball**



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## **Table of Contents Normal Distribution Questions And Answers**

1. Understanding the eBook Normal Distribution Questions And Answers
  - The Rise of Digital Reading Normal Distribution Questions And Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Normal Distribution Questions And Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Normal Distribution Questions And Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Normal Distribution Questions And Answers
  - Personalized Recommendations
  - Normal Distribution Questions And Answers User Reviews and Ratings
  - Normal Distribution Questions And Answers and Bestseller Lists
5. Accessing Normal Distribution Questions And Answers Free and Paid eBooks
  - Normal Distribution Questions And Answers Public Domain eBooks
  - Normal Distribution Questions And Answers eBook Subscription Services
  - Normal Distribution Questions And Answers Budget-Friendly Options
6. Navigating Normal Distribution Questions And Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Normal Distribution Questions And Answers Compatibility with Devices
  - Normal Distribution Questions And Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Normal Distribution Questions And Answers
  - Highlighting and Note-Taking Normal Distribution Questions And Answers
  - Interactive Elements Normal Distribution Questions And Answers
8. Staying Engaged with Normal Distribution Questions And Answers

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Normal Distribution Questions And Answers
9. Balancing eBooks and Physical Books Normal Distribution Questions And Answers
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Normal Distribution Questions And Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Normal Distribution Questions And Answers
- Setting Reading Goals Normal Distribution Questions And Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Normal Distribution Questions And Answers
- Fact-Checking eBook Content of Normal Distribution Questions And Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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