

Name _____ Date _____ Class _____

Section 8-5 Random Variables, Probability Distribution, and Expected Value

Goal: To find probabilities and expectation given a probability distribution

Expected Value of a Random Variable:

$$E(X) = x_1 p_1 + x_2 p_2 + x_3 p_3 + \cdots + x_n p_n$$

In Problems 1–3, if the probability distribution for the random variable X is given in the table, what is the expected value of X ?

1.

x_i	−2	0	2	4
p_i	0.3	0.2	0.4	0.1

$$\begin{aligned}
 E(X) &= \sum_{i=1}^n X_i P(X_i) \\
 &= (-2)(0.3) + (0)(0.2) + (2)(0.4) + (4)(0.1) \\
 &= -0.6 + 0 + 0.8 + 0.4 \\
 &= 0.6
 \end{aligned}$$

2.

x_i	−2	0	2	4
p_i	0.1	0.4	0.1	0.4

$$\begin{aligned}
 E(X) &= \sum_{i=1}^n X_i P(X_i) \\
 &= (-2)(0.1) + (0)(0.4) + (2)(0.1) + (4)(0.4) \\
 &= -0.2 + 0 + 0.2 + 1.6 \\
 &= 1.6
 \end{aligned}$$

Math Support Expected Value Practice Answers

Wolfgang Guggemos

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Table of Contents Math Support Expected Value Practice Answers

1. Understanding the eBook Math Support Expected Value Practice Answers
 - The Rise of Digital Reading Math Support Expected Value Practice Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Math Support Expected Value Practice 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 Math Support Expected Value Practice Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Math Support Expected Value Practice Answers
 - Personalized Recommendations
 - Math Support Expected Value Practice Answers User Reviews and Ratings
 - Math Support Expected Value Practice Answers and Bestseller Lists

5. Accessing Math Support Expected Value Practice Answers Free and Paid eBooks
 - Math Support Expected Value Practice Answers Public Domain eBooks
 - Math Support Expected Value Practice Answers eBook Subscription Services
 - Math Support Expected Value Practice Answers Budget-Friendly Options
6. Navigating Math Support Expected Value Practice Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Math Support Expected Value Practice Answers Compatibility with Devices
 - Math Support Expected Value Practice Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Math Support Expected Value Practice Answers
 - Highlighting and Note-Taking Math Support Expected Value Practice Answers
 - Interactive Elements Math Support Expected Value Practice Answers
8. Staying Engaged with Math Support Expected Value Practice Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Math Support Expected Value Practice Answers
9. Balancing eBooks and Physical Books Math Support Expected Value Practice Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Math Support Expected Value Practice Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Math Support Expected Value Practice Answers
 - Setting Reading Goals Math Support Expected Value Practice Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Math Support Expected Value Practice Answers
 - Fact-Checking eBook Content of Math Support Expected Value Practice 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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