The discrete random variable X has the probability function

$$P(X = x) = \begin{cases} kx & x = 2, 4, 6 \\ k(x - 2) & x = 8 \\ 0 & \text{otherwise} \end{cases}$$

where k is a constant.

(a) Show that
$$k = \frac{1}{18}$$

- (b) Find the exact value of F(5).
- (c) Find the exact value of E(X).
- (d) Find the exact value of $E(X^2)$.

(e) Calculate Var(3 - 4X) giving your answer to 3 significant figures.

(1)

(2)

(2)

(3)

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Table of Contents Edexcel S1 Jan Question Paper 2014

- 1. Understanding the eBook Edexcel S1 Jan Question Paper 2014
 - The Rise of Digital Reading Edexcel S1 Jan Question Paper 2014
 - o Advantages of eBooks Over Traditional Books
- 2. Identifying Edexcel S1 Jan Question Paper 2014
 - 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 Edexcel S1 Jan Question Paper 2014
 - User-Friendly Interface

- 4. Exploring eBook Recommendations from Edexcel S1 Jan Question Paper 2014
 - Personalized Recommendations
 - Edexcel S1 Jan Question Paper 2014 User Reviews and Ratings
 - Edexcel S1 Jan Question Paper 2014 and Bestseller Lists
- 5. Accessing Edexcel S1 Jan Question Paper 2014 Free and Paid eBooks
 - Edexcel S1 Jan Question Paper 2014 Public Domain eBooks
 - Edexcel S1 Jan Question Paper 2014 eBook Subscription Services
 - Edexcel S1 Jan Question Paper 2014 Budget-Friendly Options
- 6. Navigating Edexcel S1 Jan Question Paper 2014 eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Edexcel S1 Jan Question Paper 2014 Compatibility with Devices
 - Edexcel S1 Jan Question Paper 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Edexcel S1 Jan Question Paper 2014
 - Highlighting and Note-Taking Edexcel S1 Jan Question Paper 2014
 - o Interactive Elements Edexcel S1 Jan Question Paper 2014
- 8. Staying Engaged with Edexcel S1 Jan Question Paper 2014
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Edexcel S1 Jan Question Paper 2014
- 9. Balancing eBooks and Physical Books Edexcel S1 Jan Question Paper 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Edexcel S1 Jan Question Paper 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Edexcel S1 Jan Question Paper 2014
 - \circ Setting Reading Goals Edexcel S1 Jan Question Paper 2014
 - Carving Out Dedicated Reading Time

- 12. Sourcing Reliable Information of Edexcel S1 Jan Question Paper 2014
 - Fact-Checking eBook Content of Edexcel S1 Jan Question Paper 2014
 - 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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