

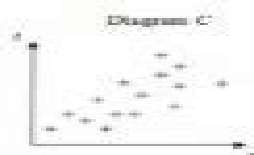
Question 1



$r = -0.79$ since there is a strong negative correlation



$r = 0.08$ since there is no correlation



$r = 0.68$ since there is moderate positive correlation

Question 2

(a) A histogram would be used since this is grouped, continuous data and the class widths vary considerably.

(c) There are 134 examiners. The median value would be the distance for the 67th examiner. 67th value is in

$f \text{ density} = f \div \text{class width}$

(b)

lower class boundary	upper class boundary	Distance (km)	Number of examiners	Class width	Frequency density
40.5	45.5	41-45	4	5	0.8
45.5	50.5	46-50	19	5	3.8
50.5	60.5	51-60	53	10	5.3
60.5	70.5	61-70	37	10	3.7
70.5	90.5	71-90	18	20	0.9
90.5	150.5	91-150	6	60	0.1

lower class boundary	upper class boundary	Distance (km)	Number of examiners	cumulative frequency
40.5	45.5	41-45	4	4
45.5	50.5	46-50	19	23
50.5	60.5	51-60	53	76
60.5	70.5	61-70	37	113
70.5	90.5	71-90	18	131
90.5	150.5	91-150	6	134

Q_1 & Q_2 in here
 Q_3 in here

$Q_1 = 33.5\text{th value}$
Median = 67th value
 $Q_3 = 100.5\text{th value}$

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Table of Contents S1 Mark Scheme 2005 June Edexcel

1. Understanding the eBook S1 Mark Scheme 2005 June Edexcel
 - The Rise of Digital Reading S1 Mark Scheme 2005 June Edexcel
 - Advantages of eBooks Over Traditional Books
2. Identifying S1 Mark Scheme 2005 June Edexcel
 - 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 S1 Mark Scheme 2005 June Edexcel
 - User-Friendly Interface
4. Exploring eBook Recommendations from S1 Mark Scheme 2005 June Edexcel
 - Personalized Recommendations
 - S1 Mark Scheme 2005 June Edexcel User Reviews and Ratings
 - S1 Mark Scheme 2005 June Edexcel and Bestseller Lists
5. Accessing S1 Mark Scheme 2005 June Edexcel Free and Paid eBooks
 - S1 Mark Scheme 2005 June Edexcel Public Domain eBooks
 - S1 Mark Scheme 2005 June Edexcel eBook Subscription Services
 - S1 Mark Scheme 2005 June Edexcel Budget-Friendly Options

6. Navigating S1 Mark Scheme 2005 June Edexcel eBook Formats
 - ePub, PDF, MOBI, and More
 - S1 Mark Scheme 2005 June Edexcel Compatibility with Devices
 - S1 Mark Scheme 2005 June Edexcel Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of S1 Mark Scheme 2005 June Edexcel
 - Highlighting and Note-Taking S1 Mark Scheme 2005 June Edexcel
 - Interactive Elements S1 Mark Scheme 2005 June Edexcel
8. Staying Engaged with S1 Mark Scheme 2005 June Edexcel
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers S1 Mark Scheme 2005 June Edexcel
9. Balancing eBooks and Physical Books S1 Mark Scheme 2005 June Edexcel
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection S1 Mark Scheme 2005 June Edexcel
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine S1 Mark Scheme 2005 June Edexcel
 - Setting Reading Goals S1 Mark Scheme 2005 June Edexcel
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of S1 Mark Scheme 2005 June Edexcel
 - Fact-Checking eBook Content of S1 Mark Scheme 2005 June Edexcel
 - 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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