

$$\Rightarrow n(n^2 - 1) = 10 \times [(10)^2 - 1]$$

$$\Rightarrow n = 10$$

(b) Find the correlation coefficient $r(x, y)$ if:
 $n = 10, \Sigma x = 60, \Sigma y = 60, \Sigma x^2 = 400, \Sigma y^2 = 580, \Sigma xy = 305$

Solution:

Given,

$$n = 10$$

$$\Sigma x = 60$$

$$\Sigma y = 60$$

$$\Sigma x^2 = 400$$

$$\Sigma y^2 = 580$$

$$\Sigma xy = 305$$

Correlation coefficient is:

$$r(x, y) = \frac{n\Sigma xy - \Sigma x\Sigma y}{\sqrt{[n\Sigma x^2 - (\Sigma x)^2]} \sqrt{[n\Sigma y^2 - (\Sigma y)^2]}}$$

$$= \frac{10 \times 305 - 60 \times 60}{\sqrt{10 \times 400 - (60)^2} \sqrt{10 \times 580 - (60)^2}}$$

$$= \frac{3050 - 3600}{\sqrt{4000 - 3600} \sqrt{5800 - 3600}}$$

$$= -550 / [\sqrt{400} \sqrt{2200}]$$

$$= -550 / [20 \times 10\sqrt{22}]$$

$$= -55 / (20 \times 4.69)$$

$$= -55/93.8$$

$$= -0.586$$

OR

Ten students got the following percentages of marks in Mathematics and Physics:

Mathematics	56	64	75	85	85	87	91	95	97	98
Physics	89	90	86	74	78	66	56	74	86	90

Find the Spearman's rank correlation coefficient for the above data.

Solution:

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Katrin Zwirgmaier



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Table of Contents Isc Class 11 Maths

1. Understanding the eBook Isc Class 11 Maths
 - The Rise of Digital Reading Isc Class 11 Maths
 - Advantages of eBooks Over Traditional Books
2. Identifying Isc Class 11 Maths
 - 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 Isc Class 11 Maths
 - User-Friendly Interface
4. Exploring eBook Recommendations from Isc Class 11 Maths
 - Personalized Recommendations
 - Isc Class 11 Maths User Reviews and Ratings
 - Isc Class 11 Maths and Bestseller Lists

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