



The figure shows points  $A$ ,  $B$  and  $C$  with position vectors  $\mathbf{a}$ ,  $\mathbf{b}$  and  $\mathbf{c}$  respectively, relative to an origin  $O$ . The point  $P$  lies on  $AB$  such that  $AP:AB = 3:4$ . The point  $Q$  lies on  $OC$  such that  $OQ:QC = 2:3$ .

(i) Express  $\overrightarrow{AP}$  in terms of  $\mathbf{a}$  and  $\mathbf{b}$  and hence show that  $\overrightarrow{OP} = \frac{1}{4}(\mathbf{a} + 3\mathbf{b})$ . [3]

(ii) Find  $\overrightarrow{PQ}$  in terms of  $\mathbf{a}$ ,  $\mathbf{b}$  and  $\mathbf{c}$ . [3]

(iii) Given that  $5\overrightarrow{PQ} = 6\overrightarrow{BC}$ , find  $\mathbf{c}$  in terms of  $\mathbf{a}$  and  $\mathbf{b}$ . [2]

# June 2013 Maths Paper 1 Questions

**Michael Seilmaier**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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**TABLE OF CONTENT**

Solved Paper 2019 December Solved Paper 2019 July Solved Paper 2018 December Solved Paper 2016 September Child Development and Pedagogy English Language and Pedagogy Hindi Bhasha evm Shiksha Shastra Mathematics and Pedagogy Science and Pedagogy Practice Sets 1 2

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### **Table of Contents June 2013 Maths Paper 1 Questions**

1. Understanding the eBook June 2013 Maths Paper 1 Questions
  - The Rise of Digital Reading June 2013 Maths Paper 1 Questions
  - Advantages of eBooks Over Traditional Books
2. Identifying June 2013 Maths Paper 1 Questions
  - 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 June 2013 Maths Paper 1 Questions
  - User-Friendly Interface
4. Exploring eBook Recommendations from June 2013 Maths Paper 1 Questions
  - Personalized Recommendations
  - June 2013 Maths Paper 1 Questions User Reviews and Ratings
  - June 2013 Maths Paper 1 Questions and Bestseller Lists



5. Accessing June 2013 Maths Paper 1 Questions Free and Paid eBooks
  - June 2013 Maths Paper 1 Questions Public Domain eBooks
  - June 2013 Maths Paper 1 Questions eBook Subscription Services
  - June 2013 Maths Paper 1 Questions Budget-Friendly Options
6. Navigating June 2013 Maths Paper 1 Questions eBook Formats
  - ePub, PDF, MOBI, and More
  - June 2013 Maths Paper 1 Questions Compatibility with Devices
  - June 2013 Maths Paper 1 Questions Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of June 2013 Maths Paper 1 Questions
  - Highlighting and Note-Taking June 2013 Maths Paper 1 Questions
  - Interactive Elements June 2013 Maths Paper 1 Questions
8. Staying Engaged with June 2013 Maths Paper 1 Questions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers June 2013 Maths Paper 1 Questions
9. Balancing eBooks and Physical Books June 2013 Maths Paper 1 Questions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection June 2013 Maths Paper 1 Questions
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine June 2013 Maths Paper 1 Questions
  - Setting Reading Goals June 2013 Maths Paper 1 Questions
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of June 2013 Maths Paper 1 Questions
  - Fact-Checking eBook Content of June 2013 Maths Paper 1 Questions
  - 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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