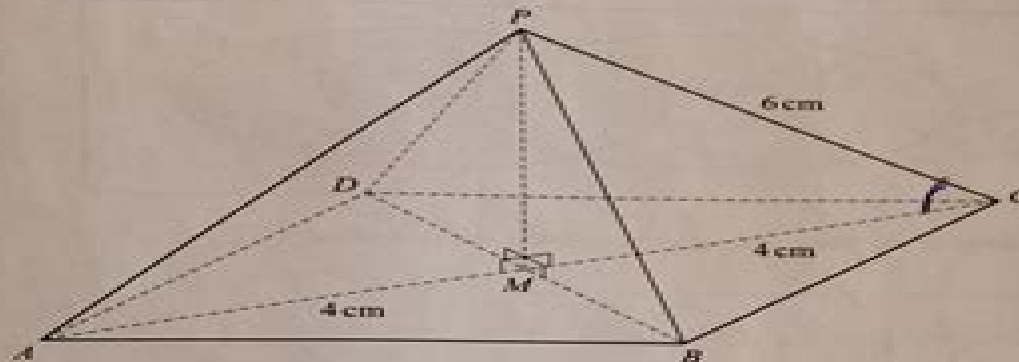


NOT TO  
SCALE

The diagram shows a pyramid on a square base  $ABCD$  with diagonals  $AC$  and  $BD$ , of length 8 cm.  $AC$  and  $BD$  meet at  $M$  and the vertex,  $P$ , of the pyramid is vertically above  $M$ . The sloping edges of the pyramid are of length 6 cm.

Calculate

- (a) the perpendicular height,  $PM$ , of the pyramid,

$$PM^2 = 6^2 - 4^2 = 36 - 16$$

$$PM^2 = 20 \rightarrow PM = \sqrt{20} = 4.47 \quad (3 \text{ sf})$$

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Answer(a)  $PM = 4.47$  cm [3]

- (b) the angle between a sloping edge and the base of the pyramid.

$$\cos \alpha = \frac{4}{6} = \frac{2}{3} \rightarrow \alpha = \cos^{-1}\left(\frac{2}{3}\right) = 48.2^\circ \quad (1 \text{ dp})$$

Answer(b)  $48.2^\circ$  [3]

Question 22 is printed on the next page.



# January 2014 Mathematics Igcse 3h Paper

**J Ma**



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1. Understanding the eBook January 2014 Mathematics Igcse 3h Paper
  - The Rise of Digital Reading January 2014 Mathematics Igcse 3h Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying January 2014 Mathematics Igcse 3h Paper
  - 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 January 2014 Mathematics Igcse 3h Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from January 2014 Mathematics Igcse 3h Paper

- Personalized Recommendations
  - January 2014 Mathematics Igcse 3h Paper User Reviews and Ratings
  - January 2014 Mathematics Igcse 3h Paper and Bestseller Lists
5. Accessing January 2014 Mathematics Igcse 3h Paper Free and Paid eBooks
    - January 2014 Mathematics Igcse 3h Paper Public Domain eBooks
    - January 2014 Mathematics Igcse 3h Paper eBook Subscription Services
    - January 2014 Mathematics Igcse 3h Paper Budget-Friendly Options
  6. Navigating January 2014 Mathematics Igcse 3h Paper eBook Formats
    - ePub, PDF, MOBI, and More
    - January 2014 Mathematics Igcse 3h Paper Compatibility with Devices
    - January 2014 Mathematics Igcse 3h Paper Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of January 2014 Mathematics Igcse 3h Paper
    - Highlighting and Note-Taking January 2014 Mathematics Igcse 3h Paper
    - Interactive Elements January 2014 Mathematics Igcse 3h Paper
  8. Staying Engaged with January 2014 Mathematics Igcse 3h Paper
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers January 2014 Mathematics Igcse 3h Paper
  9. Balancing eBooks and Physical Books January 2014 Mathematics Igcse 3h Paper
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection January 2014 Mathematics Igcse 3h Paper
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine January 2014 Mathematics Igcse 3h Paper
    - Setting Reading Goals January 2014 Mathematics Igcse 3h Paper
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of January 2014 Mathematics Igcse 3h Paper

- Fact-Checking eBook Content of January 2014 Mathematics Igcse 3h Paper
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
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