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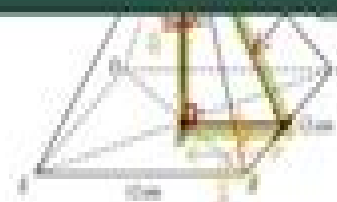
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Paper 42



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Model
Answer

The diagram shows a pyramid with a square base ABCD.
The diagonals AC and BD intersect at E and the height PE is drawn where
PE = 9 cm and DE = 6 cm.

(i) Calculate the volume of the pyramid.

[The volume, V , of a pyramid with base area A and height h is given by
 $V = \frac{1}{3}Ah$]

$$\begin{aligned} V &= \frac{1}{3} \times A \times h \\ &= \frac{1}{3} \times (12 \times 12) \times 9 \\ &= 432 \end{aligned}$$

432 cm³

(ii) Calculate the total surface area of the pyramid.

Area of square base = 144 cm²

$$\text{Area of square base} = 12^2 = 144 \text{ cm}^2$$

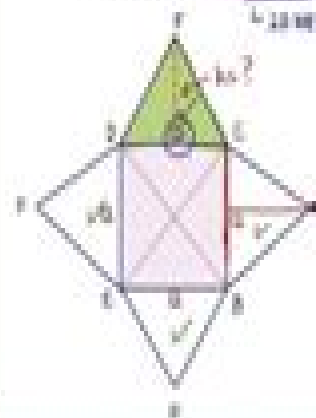
$$\text{Area of triangle} = \frac{1}{2} \times b \times h$$

$$= \frac{1}{2} \times 12 \times \sqrt{13}$$

$$= (6\sqrt{13}) \times 4 = 24\sqrt{13}$$

$$= 24\sqrt{13} \text{ cm}^2$$

$$= 24\sqrt{13} \text{ cm}^2$$



Mathematic October November Paper 42 2013

RJ Shavelson



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The Book Keith Houston,2016-08-18 A masterful and overwhelmingly entertaining volume Clea Simon Boston Globe In The Book Keith Houston reveals that the paper ink thread glue and board from which a book is made tell as rich a story as the words on its pages In an invitingly tactile history of this 2 000 year old medium Houston follows the development of writing printing the art of illustrations and binding to show how we have moved from cuneiform tablets and papyrus scrolls to the hardcovers and paperbacks of today *Innovation and Technology Enhancing Mathematics Education* Eleonora Faggiano,Francesca Ferrara,Antonella Montone,2017-10-14 This book addresses key issues of Technology and Innovation s in Mathematics Education drawing on heterogeneous ways of positioning about innovation in mathematical practice with technology The book offers ideas and meanings of innovation as they emerge from the entanglement of the various researchers with the mathematical practice the teacher training program the student learning and engagement or the research method that they are telling stories about The multiple theoretical or empirical perspectives capture a rich landscape in which the presence of digital technology entails the emergence of new practices techniques environments and devices or new ways of making sense of technology in research teaching and learning Oswaal One For All Olympiad Previous Years' Solved Papers Class 1 (Set of 6 Books) Maths, English, Science, Reasoning, Cyber & General Knowledge (For 2024-25 Exam) Oswaal Editorial Board,2024-04-16 Description of the Product Crisp Revision with Concept wise Revision Notes Mind Maps 100% Exam Readiness with Previous Years Questions from all leading Olympiads like IMO NSO ISO Hindustan Olympiad Valuable Exam Insights with 3 Levels of Questions Level1 2 Achievers Concept Clarity with 500 Concepts 50 Concepts Videos Extensive Practice with Level 1 Level 2 Practice Papers **Oswaal One For All Olympiad Previous Years' Solved Papers Class 4 (Set of 6 Books) Maths, English, Science, Reasoning, Cyber & General Knowledge (For 2023 Exam)** Oswaal Editorial Board,2023-06-14 Description of the product Crisp Revision with Concept wise Revision Notes Mind Maps 100% Exam Readiness with Previous Years Questions 2011 2022 from all leading Olympiads like IMO NSO ISO Hindustan Olympiad Valuable Exam Insights with 3 Levels of Questions Level1 2 Achievers Concept Clarity with 500 Concepts 50 Concepts Videos Extensive Practice with Level 1 Level 2 Practice Papers **Oswaal One For All Olympiad Previous Years' Solved Papers Class 4 (Set of 6 Books) Maths, English, Science, Reasoning, Cyber & General Knowledge (For 2024-25 Exam)** ,2024-04-16 Description of the Product Crisp Revision with Concept wise Revision Notes Mind Maps 100% Exam Readiness with Previous Years Questions from all leading Olympiads like IMO NSO ISO Hindustan Olympiad Valuable Exam Insights with 3 Levels of Questions Level1 2 Achievers Concept Clarity with 500 Concepts 50 Concepts Videos Extensive Practice with Level 1 Level 2 Practice Papers Collected Papers. Volume VIII Florentin Smarandache,2022-04-01 This eighth volume of Collected Papers includes 75 papers comprising 973 pages on theoretic and applied neutrosophics written between 2010 2022 by the author alone or in collaboration with the following

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Sumner Maine,1892 **Catalogue of Scientific Papers** Royal Society (Great Britain),1914 **Catalogue of Scientific Papers (1800-1900): ser. 4 , 1884-1900** Royal Society (Great Britain),1914 *Library Journal* Melvil Dewey,Richard Rogers Bowker,Charles Ammi Cutter,Bertine Emma Weston,Karl Brown,Helen E. Wessells,1913 Includes beginning Sept 15 1954 and on the 15th of each month Sept May a special section School library journal ISSN 0000 0035 called Junior libraries 1954 May 1961 Also issued separately

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