

510 | ICSE Last 10 Years Solved Papers

(c) Given : Principal = ₹ 15,000

We know that

$$A = P \left(1 + \frac{r}{100} \right)^n$$

$$\begin{aligned} \text{Amount after 1st year} &= 15,000 \left(1 + \frac{8}{100} \right) \\ &= ₹ 16,200 \end{aligned}$$

$$\text{Principal after repayment} = 16,200 - 6,200 = ₹ 10,000$$

$$\begin{aligned} \text{Amount outstanding at the end of second year} \\ &= 10,000 \left(1 + \frac{10}{100} \right) \\ &= ₹ 11,000 \end{aligned}$$

Question 2.

Ans.

(a) From a pack of 52 playing cards all cards whose numbers are multiples of 3 are removed. A card is now drawn at random.

What is the probability that the card drawn is :

(i) a face card (King, Jack or Queen)

(ii) an even numbered red card ?

(b) Solve the following equation :

[3]

$x - \frac{18}{x} = 6$. Give your answer correct to two significant figures.

[3]

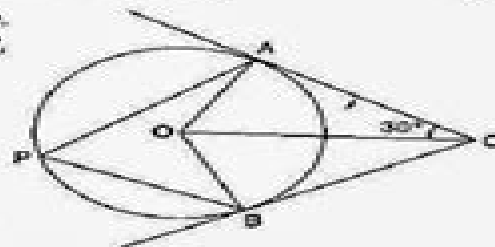
(c) In the given figure O is the centre of the circle. Tangents at A and B meet at C. If $\angle AOC = 30^\circ$, find

(i) $\angle BCO$

(ii) $\angle AOB$

(iii) $\angle APB$

[4]



Solution :

(a) Number of cards which are multiples of 3 = 12

Cards left in the pack = 40

(i) Number of face cards = 12

$$P(\text{face card}) = \frac{12}{40} = \frac{3}{10}$$

Ans.

(ii) Even numbered red cards = 10

$$P(\text{even number red card}) = \frac{10}{40} = \frac{1}{4}$$

Ans.

(b) Let $x^2 - 6x - 18 = 0$
Compare with equation $ax^2 + bx + c = 0$, we get
 $a = 1, b = -6, c = -18$

Now,

$$\begin{aligned} x &= \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \\ &= \frac{6 \pm \sqrt{36 + 72}}{2} \end{aligned}$$

Maths Grade 10 June2014 Exam Paper2

**Kenneth R. Pugh, Peggy
McCardle, Annie Stutzman**



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Teaching Mathematics Creatively Linda Pound, Trisha Lee, 2021-09-30 This revised and updated third edition offers a range of strategies activities and ideas to bring mathematics to life in the primary classroom Taking an innovative and playful approach to maths teaching this book promotes creativity as a key element of practice and offers ideas to help your students develop knowledge understanding and enjoyment of the subject In the creative classroom mathematics becomes a tool to build confidence develop problem solving skills and motivate children The fresh approaches explored in this book include a range of activities such as storytelling music and construction elevating maths learning beyond subject knowledge itself to enable students to see mathematics in a new way Key chapters of this book explore Learning maths outdoors make more noise make more mess or work on a larger scale Everyday maths making sense of the numbers patterns shapes and measures children see around them Music and maths the role of rhythm in learning and music and pattern in maths Stimulating accessible and underpinned by the latest research and theory this is essential reading for trainee and practising teachers who wish to embed creative approaches to maths teaching in their classroom

Education in the United Arab Emirates Kay Gallagher, 2019-05-17 This book provides an overview of the evolution of education in the United Arab Emirates from its humble beginnings in palm frond huts to today's proliferation of prestigious international schools and global university branch campuses The chapter authors are academic experts who have extensive first hand experience of contemporary developments in the country's various educational sectors The book addresses innovations and transformations in Early Childhood Education Higher Education K 12 Schooling Language Education in Arabic and English Quality Assurance Special Needs STEM Education and Teacher Education and Professional Development

Human Resource Management, 11th Edition Raymond J. Stone, Anne Cox, Mihajla Gavin, Joseph Carpini, 2024-06-04 The new edition of Raymond Stone's Human Resource Management is an AHRI endorsed title that has evolved into a modern relevant and practical resource for first year HRM students This concise 15 chapter textbook gives your students the best chance of transitioning successfully into their future profession by giving them relatable professional insights and encouragement to exercise their skills in authentic workplace scenarios

Global Approaches to Early Learning Research and Practice Kenneth R. Pugh, Peggy McCardle, Annie Stutzman, 2018-02-26 The health development and learning of many young children living in disadvantage areas are at serious risk Access to education has improved under the United Nations Millennium Development Goals and there are now programs in low and middle income countries that are aimed at improving instruction and learning The research and evaluation on the effectiveness of such programs show there are significant challenges but also some successes This issue features presentations of leading international scientists representatives from key governmental and non governmental organizations and others working with programs in the developing world and disadvantaged populations The presentations describe the goals existing challenges and potential approaches to providing evidence based programs to

young children in rural remote and poverty stricken areas Topics covered include the state of early childhood in low and middle income nations programs that have shown some success and innovative research approaches that have been often considered unfeasible in these contexts This is the 158th volume in this Jossey Bass series New Directions for Child and Adolescent Development Its mission is to provide scientific and scholarly presentations on cutting edge issues and concepts in this subject area Each volume focuses on a specific new direction or research topic and is edited by experts from that field

Celebrating Life Customs around the World Victoria R. Williams, 2016-11-21 This book documents hundreds of customs and traditions practiced in countries outside of the United States showcasing the diversity of birth coming of age and death celebrations worldwide From the beginning of our lives to the end all of humanity celebrates life's milestones through traditions and unique customs In the United States we have specific events like baby showers rites of passage such as Bat and Bar Mitzvahs and sweet 16 birthday parties and sober end of life traditions like obituaries and funeral services that honor those who have died But what kinds of customs and traditions are practiced in other countries How do people in other cultures welcome babies prepare to enter into adulthood and commemorate the end of the lives of loved ones This three volume encyclopedia covers more than 300 birth life and death customs with the books content organized chronologically by life stage Volume 1 focuses on birth and childhood customs Volume 2 documents adolescent and early adulthood customs and Volume 3 looks at aging and death customs The entries in the first volume examine pre birth traditions such as baby showers and other gift giving events and post birth customs such as naming ceremonies child rearing practices and traditions performed to ward off evil or promote good health The second volume contains information about rites of passage as children become adults including indigenous initiations marriage customs and religious ceremonies The final volume concludes with coverage on customs associated with aging and death such as retirement celebrations elaborate funeral processions and the creation of fantasy coffins The set features beautiful color inserts that illustrate examples of celebrations and ceremonies and includes an appendix of excerpts from primary documents that include legislation on government accepted names wedding vows and maternity paternity leave regulations *Dry Goods Merchants Trade Journal*, 1925 The Parliamentary Debates (Hansard). Great Britain. Parliament. House of Lords, 2013 **Parliamentary Debates (Hansard)**. Great Britain. Parliament. House of Commons, 2013 **The Compact Edition of the Oxford English Dictionary** Sir James Augustus Henry Murray, 1971 Micrographic reproduction of the 13 volume Oxford English dictionary published in 1933 Cracking the MCAS. Jeff Rubenstein, Princeton Review (Firm), 2001-03-13 The Princeton Review realizes that acing the MCAS Grade 10 Math exam is very different from getting straight As in school TPR doesn't try to teach students everything there is to know about math only what they'll need to score higher on the exam There's a big difference In Cracking the MCAS Grade 10 Math The Princeton Review will teach test takers how to think like the test makers and Raise scores by using techniques such as the two pass system Ballparking and Process of Elimination Get

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