

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]

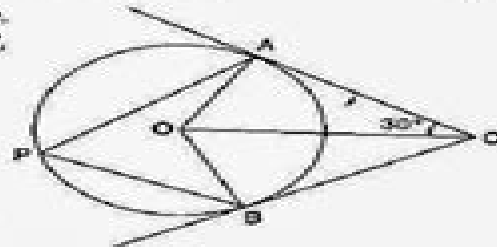
(c) In the given figure O is the centre of the circle. Tangents at A and B meet at C. If $\angle AOC = 30^\circ$, find

(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 Paper 1 Exemplar 2014 June Exam

Kevin Smith



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Maths Handbook & Study Guide Grade 12: Teacher's Guide and Answer Book Kevin Smith, 2014-01-01 Guidelines for teachers and worked through solutions to all the exercises in the Grade 12 Textbook Guidelines for teachers and worked through solutions to all the exercises in the Grade 12 Textbook

Modeling Individual Differences in Perceptual Decision Making Joseph W. Hout, Cheng-Ta Yang, James T. Townsend, 2017-01-18 To deal with the abundant amount of information in the environment in order to achieve our goals human beings adopt a strategy to accumulate some information and filter out other information to ultimately make decisions Since the development of cognitive science in the 1960s researchers have been interested in understanding how human beings process and accumulate information for decision making Researchers have conducted extensive behavioral studies and applied a wide range of modeling tools to study human behavior in simple detection tasks and two choice decision tasks e.g. discrimination classification In general researchers often assume that the manner in which information is processed for decision making is invariant across individuals given a particular experimental context Independent variables including speed accuracy instructions stimulus properties i.e. intensity and characteristics of the participants i.e. aging cognitive ability are assumed to affect the parameters in a model i.e. speed of information accumulation response bias but not the way that participants process information e.g. the order of information processing Given these assumptions much modeling has been accomplished based on the grouped data rather than the individual data However a growing number of studies have demonstrated that there were individual differences in the perceptual decision process In the same task context different groups of the participants may process information in different manners The capacity and architecture of the decision mechanism were found to vary across individuals implying that humans decision strategies can vary depending on the context to maximize their performance In this special issue we focused on a particular subset of cognitive models particularly accumulator models multinomial processing trees and systems factorial technology SFT as applied to perceptual decision making The motivation for the focus on perceptual decision making is threefold Empirical studies of perception have grown out of a history of making a large number of observations for each individual so as to achieve precise estimates of each individual's performance This type of data rather than a small number of observations per individual is most amenable to achieving precision in individual level and group level cognitive modeling Second the interaction between the acquisition of perceptual information and the decisions based on that information to the extent that those processes are distinguishable offers rich data for scientific exploration Finally there is an increasing interest in the practical application of individual variation in perceptual ability whether to inform perceptual training and expertise or to guide personnel decisions Although these practical applications are beyond the scope of this issue we hope that the research presented herein may serve as the foundation for future endeavors in that domain

Thinking with Feeling Douglas P. Newton, 2014-03-05 Are emotions good or bad for thinking and learning Have you

ever wondered why a good lesson of one year falls flat in another Why do students behave the way they do Teachers are expected to foster productive thought yet the neglect of emotion in the classroom in favour of intellect means teaching and learning is often not as effective as it might be Thinking with Feeling explores what we mean by productive thought its interrelationship with mood and emotions how teachers can manage that interaction to improve teaching and learning and what teacher trainers could do about it Synthesising the most important international research in the field it offers a framework for productive purposeful thought deduction understanding creative thinking wise thinking and critical thinking and explains how mood and emotion can support and also impede learning It considers the effect of the interplay of emotion and intellect on classroom behaviour on students public performance and performance in tests and how emotional labour can affect the teacher Illustrated with examples from practice this challenging thoughtful study offers education professionals a basis for understanding the interaction of emotions and cognition and making it a successful partnership in order to improve teaching and learning

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Table of Contents Maths Paper 1 Exemplar 2014 June Exam

1. Understanding the eBook Maths Paper 1 Exemplar 2014 June Exam
 - The Rise of Digital Reading Maths Paper 1 Exemplar 2014 June Exam
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Paper 1 Exemplar 2014 June Exam
 - 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 Maths Paper 1 Exemplar 2014 June Exam
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Paper 1 Exemplar 2014 June Exam
 - Personalized Recommendations
 - Maths Paper 1 Exemplar 2014 June Exam User Reviews and Ratings
 - Maths Paper 1 Exemplar 2014 June Exam and Bestseller Lists

5. Accessing Maths Paper 1 Exemplar 2014 June Exam Free and Paid eBooks
 - Maths Paper 1 Exemplar 2014 June Exam Public Domain eBooks
 - Maths Paper 1 Exemplar 2014 June Exam eBook Subscription Services
 - Maths Paper 1 Exemplar 2014 June Exam Budget-Friendly Options
6. Navigating Maths Paper 1 Exemplar 2014 June Exam eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Paper 1 Exemplar 2014 June Exam Compatibility with Devices
 - Maths Paper 1 Exemplar 2014 June Exam Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Paper 1 Exemplar 2014 June Exam
 - Highlighting and Note-Taking Maths Paper 1 Exemplar 2014 June Exam
 - Interactive Elements Maths Paper 1 Exemplar 2014 June Exam
8. Staying Engaged with Maths Paper 1 Exemplar 2014 June Exam
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Paper 1 Exemplar 2014 June Exam
9. Balancing eBooks and Physical Books Maths Paper 1 Exemplar 2014 June Exam
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Paper 1 Exemplar 2014 June Exam
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Maths Paper 1 Exemplar 2014 June Exam
 - Setting Reading Goals Maths Paper 1 Exemplar 2014 June Exam
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Maths Paper 1 Exemplar 2014 June Exam
 - Fact-Checking eBook Content of Maths Paper 1 Exemplar 2014 June Exam
 - 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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