

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]

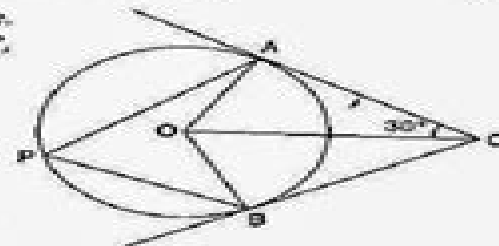
(c) In the given figure O is the centre of the circle. Tangents at A and B meet at C. If $\angle AOC = 30^\circ$, find

(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,

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

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Marcel A. Müller



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Table of Contents Mathematics Grade 10 Final Exam Papers Caps

1. Understanding the eBook Mathematics Grade 10 Final Exam Papers Caps
 - The Rise of Digital Reading Mathematics Grade 10 Final Exam Papers Caps
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Grade 10 Final Exam Papers Caps
 - 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 Mathematics Grade 10 Final Exam Papers Caps
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Grade 10 Final Exam Papers Caps
 - Personalized Recommendations
 - Mathematics Grade 10 Final Exam Papers Caps User Reviews and Ratings
 - Mathematics Grade 10 Final Exam Papers Caps and Bestseller Lists
5. Accessing Mathematics Grade 10 Final Exam Papers Caps Free and Paid eBooks
 - Mathematics Grade 10 Final Exam Papers Caps Public Domain eBooks

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