

510 | ICSE Last 10 Years Solved Papers

(c) Given : Principal = ₹ 15,000

We know that

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

$$\text{Amount after 1<sup>st</sup> year} = 15,000 \left( 1 + \frac{8}{100} \right)$$

$$= ₹ 16,200$$

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

Amount outstanding at the end of second year

$$= 10,000 \left( 1 + \frac{10}{100} \right)$$

$$= ₹ 11,000$$

Ans.

**Question 2.**

(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 ?

[3]

(b) Solve the following equation :

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

[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,

$$x = \frac{b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$= \frac{6 \pm \sqrt{36 + 72}}{2}$$

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**Rachel Sandford**



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