

Mathematics

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(Chapter – 3) (Pair of Linear Equations in two Variables) (Practice Test 4)

(Class X)

Time: 1 hour 15 minutes

M. M: 25

General Instructions:

1. This question paper contains four sections: A, B, C and D. Each part is compulsory.
2. Section A has 5 MCQ of one mark each.
3. Section B has 3 questions of two marks each.
4. Section C has 3 questions of three marks each.
5. Section D has 2 questions of five marks each, attempt any 1 out of 2.
6. There is no negative marking.

[Section – A]

1. The sum of the digits of a two-digit number is 9. If 27 is added to it, the digits of the number get reversed. The number is
(A) 27 (B) 72 (C) 45 (D) 36
2. Asha has only ₹1 and ₹2 coins with her. If the total number of coins that she has is 50 and the amount of money with her is ₹75, then the number of ₹1 and ₹2 coins are, respectively
(A) 35 and 15 (B) 15 and 35 (C) 35 and 20 (D) 25 and 25
3. The father's age is six times his son's age. Four years hence, the age of the father will be four times his son's age. The present ages of the son and the father are, respectively
(A) 4 and 24 (B) 5 and 30 (C) 6 and 36 (D) 3 and 24
4. If a pair of linear equations is consistent, then the lines are:
(A) parallel (B) always coincident
(C) always intersecting (D) intersecting or coincident
5. If $29x + 37y = 103$, $37x + 29y = 95$ then:
(A) $x = 1, y = 2$ (B) $x = 2, y = 1$ (C) $x = 2, y = 3$ (D) $x = 3, y = 2$

[Section – B]

6. Half the perimeter of a rectangle garden, whose length is 4 m more than its width, is 36 m. Find the dimensions of the garden.
7. The age of two friends Ani and Biju differ by 3 years. Ani's father Dharam is twice as old as Ani and Biju is twice as old as his sister Cathy. The ages of Cathy and Dharam differ by 30 years. Find the ages of Ani and Biju.
8. The sum of a two-digit number and the number obtained by reversing the order of digits is 99. If the digits differ by 3, find the number.

[Section – C]

9. One says, "Give me a hundred, friend! I shall then become twice as rich as you." The other replies, "If you give me ten, I shall be six times as rich as you." Tell me what is the amount of their (respective) capital?

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10. A train covered a certain distance at a uniform speed. If the train would have been 10 km/h faster, it would have taken 2 hours less than the scheduled time. And, if the train were slower by 10 km/h, it would have taken 3 hours more than the scheduled time. Find the distance covered by the train.
11. A leading library has a fixed charge for the first three days and an additional charge for each day thereafter Sarika paid ₹27 for a book kept for seven days, while Sury paid ₹21 for the book she kept for five days, find the fixed charge and the charge for each extra day.

[Section – D]

12. The students of a class are made to stand in rows. If 3 students are extra in a row, there would be 1 row less. If 3 students are less in a row, there would be 2 rows more. Find the number of students in the class.
13. Form the pair of linear equations in the following problems, and find their solutions graphically.
(A) 10 students of class X took part in a mathematics quiz. If the number of girls is 4 more than the number of boys, find the number of boys and girls who took part in the quiz.
(B) 5 pencils and 7 pens together cost ₹50, whereas 7 pencils and 5 pens together cost ₹46. Find the cost of one pencil and that of one pen.



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Hints and Answers

Section - A

1. 36
2. 25 and 25
3. 6 and 36
4. Intersecting or coincident
5. $x = 1, y = 2$

Section - B

6. length = 20m, width = 16m
7. Age of Ani = 21 years, age of Biju = 24 years
8. 63

Section - C

9. ₹40 and ₹170 with them
10. 600 km
11. $x = 15, y = 3$

Section - D

12. 36



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