



Test / Exam Name: Maths – Linear Equations In One Variables Standard: 8th Subject: Mathematics

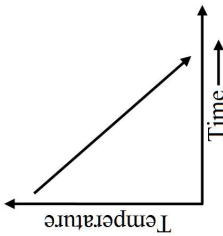
Student Name: Section: Roll No.: Questions: 26 Time: 01:45 hr:mm Marks: 50

Instructions

- 1. Rough work on the right side and new section from new page
2. Keep the timer & make sure to spare 10 min for rechecking your paper
3. Honesty is the best policy. Good Luck.

SECTION-A

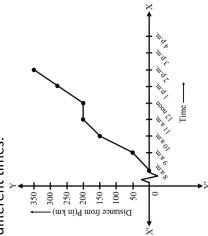
- Q1. Seven times a number is 42. This statement in the form of an equation is:
Q2. Tick (✓) the correct answer:
Q3. Tick (✓) the correct answer:
Q4. Tick (✓) the correct answer:
Q5. If x is an even number, then the next even number is:
Q6. The present age of Sahil's mother is three times the present age of Sahil. After 5 years their ages will add to 66 years. Find their present ages.
Q7. Find the solution of the following equation:
Q8. The sum of two digit number and the number formed by interchanging its digit is 110. If ten is subtracted from the first number, the new number is 4 more than 5 times of the sum of the digits in the first number. Find the first number.
Q9. If 2/5 x - 2 = 5 - 3/5 x, then x =
Q10. Solve the following equations.
Q11. The solution of the equation 2y = 5y - 16/9 is
Q12. 3/7 + x = 17/7
Q13. Can there be a temperature-time graph as follows? Justify your answer.



- Q14. Find the following products:
Q15. Solve:
Q16. The ages of hari and harry are in ratio 5 : 7. Four years from now the ratio of their will be 3 : 4 find their present ages.

SECTION-B

- Q117. Two numbers are such that the ratio between them is 3 : 5. If each is increased by 10, the ratio between the new numbers so formed is 5 : 7.
Q18. Factorise:
Q19. Four-fifths of a number is 10 more than two-thirds of the number. Find the number.
Q20. Divide 150 into three parts such that the second number is five-sixths the first and the third number is four-fifths the second.
Q21. Distance between two places A and B is 210km. Two cars start simultaneously from A and B in opposite direction and distance between them after 3 hours is 54km. If speed of one car is less than that of other by 8km/hr, find the speed of each.
Q22. 5/2 - 1/4 (x - 1/3) = 1/6 (x + 1) + 1/12
Q23. If (x - 1/2) = 4 find the value of:
Q24. 5 years ago a man was 7 times as old as his son. After 5 years he will be thrice as old as his son. Find their present ages.
Q25. Solve the following linear equations.
Q26. A car is travelling from city P to city Q, which are 350km apart. The line graph given below describes the distances of the car from the city P at different times.



- SECTION-C
Study the above graph and answer the questions given below:
1. What information is given on the two axes?
2. From where and when did the car begin its journey?
3. How far did the car go in the first hour?
4. How far did the car go during (a) the 2nd hour and (b) the 3rd hour?
5. Was the speed same during first three hours? How do you know it?
6. Did the car stop for some during at any place? Justify your answer.
7. When did the car reach city Q?

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