

Name - _ _ _ _

Start time - _ _ : _ _

End time - _ _ : _ _

Solve the following. Algebraic expressions.

- 1. Solve 2x + 3y = 11 and 2x 4y = -24 and hence find the value of 'm' for which y = mx + 3.
- The coach of a cricket team buys 7 bats and 6 balls for Rs.3800. Later, she buys 3 bats and 5 balls for Rs.1750. Find the cost of each bat and each ball.
- 3. A fraction becomes 9/11 if 2 is added to both the numerator and the denominator. If, 3 is added to both the numerator and the denominator it becomes 5/6. Find the fraction.
- 4. Form the pair of linear equations in the following problems, and find their solutions (if they exist) by the elimination method:
 - (i) Five years ago, Aly was thrice as old as Eli. Ten years later, Aly will be twice as old as Eli. How old are Aly and Eli?
 - (ii) A lending library has a fixed charge for the first three days and an additional charge for each day thereafter. Saritha paid Rs.27 for a book kept for seven days, while Rusy paid Rs.21 for the book she kept for five days. Find the fixed charge and the charge for each extra day.
- 5. Solve the following pair of linear equations by the substitution and cross-multiplication methods: 8x + 5y = 9, 3x + 2y = 4

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