

Answer the questions

- (1) Find value of k for which equations $kx + 2y - 1 = 0$ and $-6x + 4y - 2 = 0$, will have infinitely many solutions.
- (2) In a two digit number, sum of its digits is 11. If 45 is added to the number, the digit interchange their places. Find the number.
- (3) If twice the daughter's age in years is added to father's age, the sum is 41. If twice the father's age is added to the daughter's age, the sum is 61. Find the age of father and daughter.
- (4) Which of the following equations has a unique solution?
 $4x + 2y + 3 = 0$, $12x + 6y + 8 = 0$
 $4x + 2y + 3 = 0$, $8x + 4y + 6 = 0$
 $4x + 2y + 3 = 0$, $8x + 4y + 9 = 0$
 $4x + 2y + 7 = 0$, $8x + 4y + 3 = 0$
- (5) There are two numbers. If four times the larger of two numbers is divided by the smaller one, we get 7 as quotient and 0 as remainder. If six times the smaller of two numbers is divided by the larger one, we get 3 as quotient and 15 as remainder. Find the numbers.
- (6) 12 chairs and 9 tables cost Rs.4950 and 5 chairs and 6 tables cost Rs.2850. Find the cost of one chair and one table separately.

Choose correct answer(s) from given choice

- (7) Three years ago Shyam was six times older than his daughter. After three years, Shyam will be 3 years more than three times the age of his daughter. Find the present age of Shyam and his daughter.

a. 34 and 9 years	b. 33 and 8 years
c. 35 and 10 years	d. 31 and 6 years
- (8) The pair of equations $3p - q - 1 = 0$ and $6p - 4q - 4 = 0$ have

a. infinitely many solutions	b. a unique solution
c. exactly two solutions	d. no solution
- (9) Usha has only Rs.10 and Rs.1 notes with her. If the total number of notes that she has is 20 and the amount of money with her is Rs. 146, then the number of Rs.10 and Rs.1 notes are, respectively

a. 14 and 6	b. 16 and 4
c. 13 and 7	d. 12 and 8