

Pair of Linear Equations in Two Variables

Very Very Important Question (V.V.I.P)

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Q 1 The sum of a two digit number and the number formed by interchanging its digits is 110. If 10 is subtracted from the first number, the new number is 4 more than 5 times the sum of the digits in the first number. Find the first number.

- (A) 64 (B) 66
(C) 62 (D) 70

Q 2 A two-digit number is such that the product of its digits is 20. If 9 is added to the number, the digits interchange their place. Find the number.

- (A) 42 (B) 45
(C) 44 (D) 46

$xy = 20 \text{ -- } 1$
 $x - y = -1 \text{ -- } 2$
apply $(x+y)^2 = (x-y)^2 + 4xy$

Q 3 The sum of the numerator and denominator of a fraction is 4 more than twice the numerator. If the numerator and denominator are increased by 3, they are in the ratio 2 : 3. Determine the fraction.

- (A) $\frac{9}{5}$ (B) $\frac{5}{7}$
(C) $\frac{7}{5}$ (D) $\frac{5}{9}$

Q 4 Two numbers are in the ratio 5 : 6. If 8 is subtracted from each of the numbers, the ratio becomes 4 : 5, then the numbers are and

- (A) 48, 20 (B) 40, 28
(C) 40, 48 (D) 20, 24

Q 5 A fraction becomes $\frac{4}{5}$ when 1 is added to each of the numerator and denominator. However, if we subtract 5 from each of them, it becomes $\frac{1}{2}$. Then numerator of the fraction is

- (A) 6 (B) 7
(C) 8 (D) 9

Q 6 The unit's digit of a two digit number is twice its ten's digit. If the digits are reversed, the number is 27 more than the original number. Find the number.

- (A) 36 (B) 40
(C) 38 (D) 32

Q 7 Three chairs and two tables cost Rs. 1850. Five chairs and three tables cost Rs. 2850. Then the total cost of one chair and one table is

- (A) Rs. 800
(B) Rs. 850
(C) Rs. 900
(D) Rs. 950

Answer Key

Q1 A
Q2 B
Q3 D
Q4 C

Q5 B
Q6 A
Q7 B



Hints & Solutions

Q 1 Video Solution:



Q 2 Video Solution:



Q 3 Video Solution:



Q 4 Video Solution:



Q 5 Video Solution:



Q 6 Video Solution:



Q 7 Video Solution:



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