

CLASS TEST-03 Date: 15/05/25

FM-10

Time: 30 mins

[A] Choose the correct option [1x3=3]

1. Shifting one term from one side of an equation to another side with a change of sign is known as

- (a) distributivity (b) transposition
(c) commutativity (d) associativity

2. x exceeds 3 by 7, can be represented as

- (a) $x+7=3$ (b) $x-7=3$
(c) $x-3=7$ (d) $x+3=7$

3. Which of the following equations cannot be formed using the equation $x=7$?

- (a) $2x+1=15$ (b) $7x-1=50$
(c) $\frac{x}{7}-1=0$ (d) $x-3=4$

[B] Solve the equation

$$5(2x+3) = 3(3x+9) \quad [2]$$

[C] Set up equation and solve

Rohan's father bought some mangoes and apples. The number of apples ~~was~~ was 6 more than 4 times of the number of mangoes. The number of apples was 50. Find the number of mangoes

[3]

[D] Assertion-Reason $[2 \times 1 = 2]$

1. Assertion: An equation is a statement in which the value of two mathematical expressions are equal

Reason: $7x - 9$ is an equation

(a) $A \checkmark R \checkmark E \checkmark$

(b) $A \checkmark R \checkmark E \times$

(c) $A \checkmark R \times$

(d) $A \times R \checkmark$

2. Assertion: The value of the variable in an equation for which the equation is satisfied is called the solution of the equation

Reason: The solution of the equation $x + 3 = 0$ is 3

(a) $A \checkmark R \checkmark E \checkmark$

(b) $A \checkmark R \checkmark E \times$

(c) $A \checkmark R \times$

(d) $A \times R \checkmark$