

6. SIMPLE EQUATIONS

(1)

Class: VII, MATHEMATICS

INTEGRATED, SOLUTIONS

2025/26

TEACHING TASK
JEE MAIN LEVEL

01. $x+7=12$ Ans. B

02. $x-4=10$ Ans. C

03. $3x+10=40$ Ans. A

04. $3 \times 50 = 150$ Ans. A

05. $5x + \cancel{20} = 100$ Ans. D

06. $5x+20=50$ Ans. A

07. $x-7=15$ Ans. C

08. $10 \times 7 = x$ Ans. B

09. $40-12=28$ Ans. A

10. $3x=15$ Ans. A

JEE ADVANCED

11. $x+50=100$ (or) $100-x=50$ Ans. A, B

12. $\text{Speed} = \frac{\text{Distance}}{\text{Time}} \Rightarrow x = \frac{120}{2} \Rightarrow 2x=120$
Ans. B, A

13. Statement I: 4 books = Rs 60. (2) (True)
 $\Rightarrow 1 \text{ book} = \text{Rs. } \frac{60}{4} = \text{Rs. } 15$ (False)

Statement II: Mathematically (True) Ans: A

14. Statement I: Mathematically (True)

Statement II: $5x = 25 \Rightarrow x = 5$ (False)
Ans: C

15. Assertion (A): $x + 8 = 15$ (True)

Reason (R): $x = 15 - 8 = 7$ (True) Ans: A

16. Assertion (A): $5x = 40$ (True)

Reason (R): ~~not~~ $5x = 40 \Rightarrow x = 8$ (True)
Ans: A

17. $5x = 30$

Ans: B

18. $5x = 30 \Rightarrow x = 6$

Ans: C

19. $7x = 350$

Ans: B

20 $7x = 350 \Rightarrow x = 50$

Ans: A

21. Do not have note books = 5

No. of students who have note book = $15 - 5$
 $= 10$

Ans: 10

$$22. \quad 10x = 50 \Rightarrow x = 5$$

(3) Ans: 5

$$23. \quad a) \quad x + 4 = 12 \quad (s)$$

$$b) \quad 3x = 60 \quad (r)$$

$$c) \quad x - 5 = 15 \quad (q)$$

$$d) \quad 6x = 36 \quad (p)$$

Ans: s, r, q, p

$$24. \quad a) \quad x - 7 = 20 \quad (q)$$

$$b) \quad x + 5 = 15 \quad (p)$$

$$c) \quad 3x = 21 \quad (s)$$

$$d) \quad \frac{x}{4} = 10 \quad (r)$$

Ans: q, p, s, r

LEARNER'S TASK (CUES)

01 Conceptual

Ans: B

$$02 \quad 4y = 12$$

Ans: B

$$03 \quad 2x = 10 \Rightarrow x = 5$$

Ans: A

$$04 \quad x + 10 = 50 \Rightarrow x = 40$$

Ans: A

$$05 \quad x - 7 = 15 \Rightarrow x = 22$$

Ans: B

$$06 \quad x + 12 = 18$$

Ans: A

07 $\frac{100}{4} = x \Rightarrow x = 25$

④ Ans: A

08 $5x = 45 \Rightarrow x = 9$

Ans: A

09 $5x = 45$

Ans: A

10 $8x = 80 \Rightarrow x = 10$

Ans: A

JEE MAINS LEVEL

01. $x + 7 = 12 \Rightarrow x = 5$

Ans: B

02 $x - 4 = 10 \Rightarrow x = 14$

Ans: B

03 $3x + 10 = 40 \Rightarrow 3x = 30 \Rightarrow x = 10$

Ans: A

04 $x + 5 = 12 \Rightarrow x = 7$

Ans: A

05 $x + 5 = 12 \Rightarrow x = 7$

Ans: A

06 $5x + 20 = 50 \Rightarrow x = 6$

Ans: A

07 $x + 12 = 18 \Rightarrow x = 6$

Ans: A

08 $7 \times 10 = 70$

Ans: A, B

09 $50 - 20 = 30$

Ans: A

10 $30 - 8 = 22$

Ans: A

IEEE ADVANCED LEVEL

(5)

11. $6x = 36$ (a) ~~24~~ $6 \times x = 36$ Ans: A, B

12. $3x = 24$ (a) $x \times 3 = 24$ Ans: A, C

13. Statement I: Conceptual (True)
Statement II: Conceptual (False) Ans: C

14. Statement I: Conceptual (True)
Statement II: Conceptual (False) Ans: C

15. * Assertion: Conceptual (True)
Reason: Conceptual (False) Ans: C

16. Assertion: Conceptual (True)
Reason: Conceptual (True) Ans: A

17. $5x = 25$ Ans: B

18. $5x = 25 \Rightarrow x = 5$ Ans: B

19. $x = 15 + 5$ Ans: A

20. $x = 20$ Ans: A

21. $5x = 25 \Rightarrow x = 5$ Ans: 5

22. $6 \times 30 = Rs 180$ Ans: 180

- 23 a) $4x = 20$ (p)
b) $x + 9 = 17$ (q)
c) $x + 5 = 25$ (r)
d) $x - 2 = 6$ (s)

Ans. p, q, r, s

- 24 a) $5x = 45$ (r)
b) $x + 6 = 16$ (s)
c) $x - 8 = 12$ (q)
d) $\frac{x}{5} = 9$ (p)

Ans. r, s, q, p

$\Rightarrow$ THE END $\Leftarrow$