

EXERCISE 12B

Solve: 1. 8y - 4y = 20Solution:

8y - 4y = 20By further calculation 4y = 20So we get y = 20/4 = 5

2. 9b - 4b + 3b = 16 Solution:

9b - 4b + 3b = 16By further calculation 8b = 16So we get b = 16/8 = 2

3. 5y + 8 = 8y - 18 Solution:

5y + 8 = 8y - 18By further calculation 8y - 5y = 8 + 18So we get 3y = 26y = 26/3 = 82/3

4. 6 = 7 + 2p - 5 Solution:

6 = 7 + 2p - 5By further calculation 2p = 6 - 7 + 5So we get 2p = 4p = 4/2 = 2

5. 8 – 7x = 13x + 8 Solution:

8 - 7x = 13x + 8By further calculation 13x + 7x = 8 - 820x = 0x = 0/20 = 0 Selina Solutions Concise Maths Class 7 Chapter 12 – Simple Linear Equations (Including Word Problems)

PAGE: 140



6. 4x - 5x + 2x = 28 + 3xSolution:

4x - 5x + 2x = 28 + 3xBy further calculation 4x - 5x + 2x - 3x = 28So we get - 2x = 28x = 28/-2 = -14

7. 9 + m = 6m + 8 – m Solution:

9 + m = 6m + 8 - mBy further calculation 6m - m - m = 9 - 84m = 1So we get m = 1/4

8. 24 = y + 2y + 3 + 4ySolution:

24 = y + 2y + 3 + 4yBy further calculation 24 - 3 = 7y21 = 7ySo we get y = 21/7 = 3

9. 19x + 13 – 12x + 3 = 23 Solution:

19x + 13 - 12x + 3 = 23By further calculation 7x = 23 - 16So we get 7x = 7x = 7/7 = 1

10. 6b + 40 = - 100 - b Solution:

6b + 40 = -100 - bBy further calculation 7b = -100 - 407b = -140So we get b = -140/7 = -20 Selina Solutions Concise Maths Class 7 Chapter 12 – Simple Linear Equations (Including Word Problems)



11. 6 - 5m - 1 + 3m = 0Solution:

6-5m-1+3m=0By further calculation 5-2m=0So we get 2m=5m=5/2=2 1/2

12.0.4x - 1.2 = 0.3x + 0.6Solution:

0.4x - 1.2 = 0.3x + 0.6By further calculation 0.1x = 1.8Multiply and divide both numerator and denominator by 10 1/10x = 18/10By cross multiplication $x = 18/10 \times 10/1 = 18$

13. 6 (x + 4) = 36 Solution:

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6 (x + 4) = 36
By further calculation
6x + 24 = 36
So we get
6x = 36 - 24
6x = 12
x = 12/6 = 2
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14. 9 (a + 5) + 2 = 11 Solution:

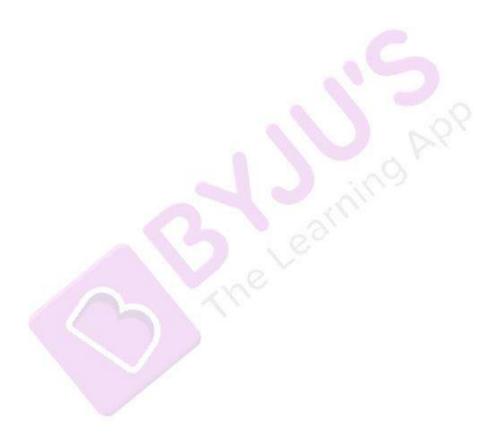
9 (a + 5) + 2 = 11By further calculation 9a + 45 + 2 = 11 So we get 9a = 11 - 47 9a = - 36 a = -36/9 = - 4

15. 4 (x – 2) = 12 Solution:

4 (x - 2) = 12By further calculation 4x - 8 = 12So we get Selina Solutions Concise Maths Class 7 Chapter 12 – Simple Linear Equations (Including Word Problems)



4x = 20x = 20/4 = 5 Selina Solutions Concise Maths Class 7 Chapter 12 – Simple Linear Equations (Including Word Problems)



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