Cambridge IGCSE Mathematics – Linear Equations in One Variable

Answer Key (Verified and Accurate)

1. $3x + 5 = 14 \rightarrow 3x = 9 \rightarrow x = 3$

2. $2x - 7 = 9 \rightarrow 2x = 16 \rightarrow x = 8$

3. $5(x - 2) = 20 \rightarrow x - 2 = 4 \rightarrow x = 6$

4. $4x - 3 = 2x + 5 \rightarrow 2x = 8 \rightarrow x = 4$

5. $(x / 3) + 4 = 7 \rightarrow x / 3 = 3 \rightarrow x = 9$

6. $2(3x - 1) = 10 \rightarrow 6x - 2 = 10 \rightarrow 6x = 12 \rightarrow x = 2$

7. $7x - 5 = 3x + 15 \rightarrow 4x = 20 \rightarrow x = 5$

8. $(2x - 1) / 5 = 3 \rightarrow 2x - 1 = 15 \rightarrow 2x = 16 \rightarrow x = 8$

9. $6x + 4 = 4x + 14 \rightarrow 2x = 10 \rightarrow x = 5$

10. $(x / 2) - 3 = 5 \rightarrow x / 2 = 8 \rightarrow x = 16$

11. $3(x + 4) = 2x + 10 \rightarrow 3x + 12 = 2x + 10 \rightarrow x = -2$

12. $(4x - 7) / 3 = x + 2 \rightarrow 4x - 7 = 3x + 6 \rightarrow x = 13$