

Name: _____

Date: _____

Score: _____ / 19

Solving Two-Step Equations

Isolating the variable by undoing addition first, then multiplication.

Balance same to both sides	Undo + - first	Then undo $\times \div$ second	Check put your answer back in
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Section A — Add or Subtract First

Solve for x.

1. $3x + 7 = 22$, $x =$ _____

2. $4x + -6 = 26$, $x =$ _____

3. $5x + 12 = 27$, $x =$ _____

4. $2x + -9 = 13$, $x =$ _____

5. $6x + 4 = 46$, $x =$ _____

6. $8x + -16 = 16$, $x =$ _____

Section B — Subtraction Form

Solve for x.

7. $4x - 3 = 21$, $x =$ _____

8. $7x - -2 = 37$, $x =$ _____

9. $3x - 8 = 19$, $x =$ _____

10. $5x - -4 = 39$, $x =$ _____

11. $9x - 6 = 12$, $x =$ _____

12. $6x - -12 = 60$, $x =$ _____

Section C — Variables Both Sides

Solve for x.

13. $2x + 3 = 5x - 9$, $x =$ _____

14. $3x + 1 = 7x - 11$, $x =$ _____

15. $4x + 2 = 6x - 8$, $x =$ _____

16. $5x + 4 = 9x - 4$, $x =$ _____

Section D — Word Problems

Write an equation, then solve.

17. Four times a number plus 7 is 39. Find the number.

18. A taxi costs \$5 plus \$3/km. A trip cost \$32. How many km?

19. Three consecutive integers add to 48. Name them.

Solving Two-Step Equations — Answer Key

For marking. Accept equivalent correct forms.

Section A — Add or Subtract First

1. 5

2. 8

3. 3

4. 11

5. 7

6. 4

Section B — Subtraction Form

7. 6

8. 5

9. 9

10. 7

11. 2

12. 8

Section C — Variables Both Sides

13. 4

14. 3

15. 5

16. 2

Section D — Word Problems

17. 8

18. 9

19. 15, 16, 17
