

One-step equations

Solve each equation. Show your working, and write the answer on the line.

Name _____ Date _____

1. $20 + x = 26$

$x =$ _____

2. $9 = x - 20$

$x =$ _____

3. $x + 20 = 35$

$x =$ _____

4. $18 = x - 15$

$x =$ _____

5. $x + 18 = 29$

$x =$ _____

6. $x - 19 = 15$

$x =$ _____

7. $32 = x + 13$

$x =$ _____

8. $3 = x - 19$

$x =$ _____

9. $2 + x = 15$

$x =$ _____

10. $x - 3 = 9$

$x =$ _____

11. $36 = 20 + x$

$x =$ _____

12. $x - 13 = 7$

$x =$ _____

13. $x + 1 = 18$

$x =$ _____

14. $x - 18 = 7$

$x =$ _____

15. $7 = x + 6$

$x =$ _____

16. $x - 15 = 13$

$x =$ _____

17. $5 + x = 19$

$x =$ _____

18. $x - 2 = 8$

$x =$ _____

19. $x + 14 = 15$

$x =$ _____

20. $x - 1 = 20$

$x =$ _____

One-step equations: answer key

Each equation worked one step a line. What was done to both sides is beside each step.

1. $20 + x = 26$

$x = 6$ Subtract 20 from both sides.

Check: $20 + 6 = 26$

2. $9 = x - 20$

$29 = x$ Add 20 to both sides.

$x = 29$

Check: $9 = 29 - 20$

3. $x + 20 = 35$

$x = 15$ Subtract 20 from both sides.

Check: $15 + 20 = 35$

4. $18 = x - 15$

$33 = x$ Add 15 to both sides.

$x = 33$

Check: $18 = 33 - 15$

5. $x + 18 = 29$

$x = 11$ Subtract 18 from both sides.

Check: $11 + 18 = 29$

6. $x - 19 = 15$

$x = 34$ Add 19 to both sides.

Check: $34 - 19 = 15$

7. $32 = x + 13$

$19 = x$ Subtract 13 from both sides.

$x = 19$

Check: $32 = 19 + 13$

8. $3 = x - 19$

$22 = x$ Add 19 to both sides.

$x = 22$

Check: $3 = 22 - 19$

9. $2 + x = 15$

$x = 13$ Subtract 2 from both sides.

Check: $2 + 13 = 15$

10. $x - 3 = 9$

$x = 12$ Add 3 to both sides.

Check: $12 - 3 = 9$

11. $36 = 20 + x$

$16 = x$ Subtract 20 from both sides.

$x = 16$

Check: $36 = 20 + 16$

12. $x - 13 = 7$

$x = 20$ Add 13 to both sides.

Check: $20 - 13 = 7$

13. $x + 1 = 18$

$x = 17$ Subtract 1 from both sides.

Check: $17 + 1 = 18$

14. $x - 18 = 7$

$x = 25$ Add 18 to both sides.

Check: $25 - 18 = 7$

15. $7 = x + 6$

$1 = x$ Subtract 6 from both sides.

$x = 1$

Check: $7 = 1 + 6$

16. $x - 15 = 13$

$x = 28$ Add 15 to both sides.

Check: $28 - 15 = 13$

17. $5 + x = 19$

$x = 14$ Subtract 5 from both sides.

Check: $5 + 14 = 19$

18. $x - 2 = 8$

$x = 10$ Add 2 to both sides.

Check: $10 - 2 = 8$

19. $x + 14 = 15$

$x = 1$ Subtract 14 from both sides.

Check: $1 + 14 = 15$

20. $x - 1 = 20$

$x = 21$ Add 1 to both sides.

Check: $21 - 1 = 20$