

One-step equations

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

Name _____ Date _____

1. $25 = 6 + x$

$x =$ _____

2. $12k = 60$

$k =$ _____

3. $y - 9 = 15$

$y =$ _____

4. $\frac{k}{11} = 7$

$k =$ _____

5. $a + 20 = 39$

$a =$ _____

6. $4x = 24$

$x =$ _____

7. $p - 14 = 9$

$p =$ _____

8. $\frac{p}{9} = 8$

$p =$ _____

9. $7 + y = 27$

$y =$ _____

10. $9a = 45$

$a =$ _____

11. $m - 5 = 15$

$m =$ _____

12. $8 = \frac{p}{10}$

$p =$ _____

13. $4 + m = 22$

$m =$ _____

14. $11x = 121$

$x =$ _____

15. $x - 7 = 1$

$x =$ _____

16. $\frac{t}{2} = 4$

$t =$ _____

17. $10 + n = 11$

$n =$ _____

18. $3x = 12$

$x =$ _____

19. $2 = n - 4$

$n =$ _____

20. $\frac{k}{5} = 4$

$k =$ _____

One-step equations: answer key

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

1. $25 = 6 + x$

$19 = x$ Subtract 6 from both sides.

$x = 19$

Check: $25 = 6 + 19$

2. $12k = 60$

$k = 5$ Divide both sides by 12.

Check: $12(5) = 60$

3. $y - 9 = 15$

$y = 24$ Add 9 to both sides.

Check: $24 - 9 = 15$

4. $\frac{k}{11} = 7$

$k = 77$ Multiply both sides by 11.

Check: $\frac{77}{11} = 7$

5. $a + 20 = 39$

$a = 19$ Subtract 20 from both sides.

Check: $19 + 20 = 39$

6. $4x = 24$

$x = 6$ Divide both sides by 4.

Check: $4(6) = 24$

7. $p - 14 = 9$

$p = 23$ Add 14 to both sides.

Check: $23 - 14 = 9$

8. $\frac{p}{9} = 8$

$p = 72$ Multiply both sides by 9.

Check: $\frac{72}{9} = 8$

9. $7 + y = 27$

$y = 20$ Subtract 7 from both sides.

Check: $7 + 20 = 27$

10. $9a = 45$

$a = 5$ Divide both sides by 9.

Check: $9(5) = 45$

11. $m - 5 = 15$

$m = 20$ Add 5 to both sides.

Check: $20 - 5 = 15$

12. $8 = \frac{p}{10}$

$80 = p$ Multiply both sides by 10.

$p = 80$

Check: $8 = \frac{80}{10}$

13. $4 + m = 22$

$m = 18$ Subtract 4 from both sides.

Check: $4 + 18 = 22$

14. $11x = 121$

$x = 11$ Divide both sides by 11.

Check: $11(11) = 121$

15. $x - 7 = 1$

$x = 8$ Add 7 to both sides.

Check: $8 - 7 = 1$

16. $\frac{t}{2} = 4$

$t = 8$ Multiply both sides by 2.

Check: $\frac{8}{2} = 4$

17. $10 + n = 11$

$n = 1$ Subtract 10 from both sides.

Check: $10 + 1 = 11$

18. $3x = 12$

$x = 4$ Divide both sides by 3.

Check: $3(4) = 12$

19. $2 = n - 4$

$6 = n$ Add 4 to both sides.

$n = 6$

Check: $2 = 6 - 4$

20. $\frac{k}{5} = 4$

$k = 20$ Multiply both sides by 5.

Check: $\frac{20}{5} = 4$