

One-step equations

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

Name _____ Date _____

1. $k - 1 = -11$

$k =$ _____

2. $-48 = -8m$

$m =$ _____

3. $n - 4 = 3$

$n =$ _____

4. $\frac{y}{9} = -1$

$y =$ _____

5. $n - 15 = -21$

$n =$ _____

6. $-3y = 36$

$y =$ _____

7. $p - 15 = -8$

$p =$ _____

8. $8 = \frac{y}{2}$

$y =$ _____

9. $m - 19 = -33$

$m =$ _____

10. $-10n = 90$

$n =$ _____

11. $-19 = t - 7$

$t =$ _____

12. $\frac{n}{9} = 11$

$n =$ _____

13. $m + 5 = 18$

$m =$ _____

14. $-4p = 4$

$p =$ _____

15. $t - 7 = -14$

$t =$ _____

16. $\frac{m}{7} = 11$

$m =$ _____

17. $p - 8 = -3$

$p =$ _____

18. $12p = 144$

$p =$ _____

19. $a - 1 = 14$

$a =$ _____

20. $12 = \frac{a}{11}$

$a =$ _____

One-step equations: answer key

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

1. $k - 1 = -11$

$k = -10$ Add 1 to both sides.

Check: $-10 - 1 = -11$

2. $-48 = -8m$

$6 = m$ Divide both sides by -8 .

$m = 6$

Check: $-48 = -8(6)$

3. $n - 4 = 3$

$n = 7$ Add 4 to both sides.

Check: $7 - 4 = 3$

4. $\frac{y}{9} = -1$

$y = -9$ Multiply both sides by 9.

Check: $\frac{-9}{9} = -1$

5. $n - 15 = -21$

$n = -6$ Add 15 to both sides.

Check: $-6 - 15 = -21$

6. $-3y = 36$

$y = -12$ Divide both sides by -3 .

Check: $-3(-12) = 36$

7. $p - 15 = -8$

$p = 7$ Add 15 to both sides.

Check: $7 - 15 = -8$

8. $8 = \frac{y}{2}$

$16 = y$ Multiply both sides by 2.

$y = 16$

Check: $8 = \frac{16}{2}$

9. $m - 19 = -33$

$m = -14$ Add 19 to both sides.

Check: $-14 - 19 = -33$

10. $-10n = 90$

$n = -9$ Divide both sides by -10 .

Check: $-10(-9) = 90$

11. $-19 = t - 7$

$-12 = t$ Add 7 to both sides.

$t = -12$

Check: $-19 = -12 - 7$

12. $\frac{n}{9} = 11$

$n = 99$ Multiply both sides by 9.

Check: $\frac{99}{9} = 11$

13. $m + 5 = 18$

$m = 13$ Subtract 5 from both sides.

Check: $13 + 5 = 18$

14. $-4p = 4$

$p = -1$ Divide both sides by -4 .

Check: $-4(-1) = 4$

15. $t - 7 = -14$

$t = -7$ Add 7 to both sides.

Check: $-7 - 7 = -14$

16. $\frac{m}{7} = 11$

$m = 77$ Multiply both sides by 7.

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

17. $p - 8 = -3$

$p = 5$ Add 8 to both sides.

Check: $5 - 8 = -3$

18. $12p = 144$

$p = 12$ Divide both sides by 12.

Check: $12(12) = 144$

19. $a - 1 = 14$

$a = 15$ Add 1 to both sides.

Check: $15 - 1 = 14$

20. $12 = \frac{a}{11}$

$132 = a$ Multiply both sides by 11.

$a = 132$

Check: $12 = \frac{132}{11}$