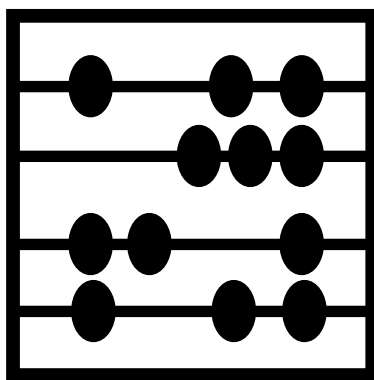


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# Solving Two-Step Linear Equations



Algebra 1

Practice Worksheet

*Practice you can't find anywhere else*

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*Solve the equation.*

Type 1: Add then divide

1.  $4x - 5 = 3$

2.  $8x - 6 = 26$

3.  $3x - 5 = 19$

4.  $5x - 7 = 23$

...

5.  $-3 + 6x = 9$

6.  $-18 + 7x = 31$

7.  $-4 + 5x = -19$

8.  $-7 + 4x = -35$

...

9.  $-13 = -3z - 1$

10.  $-29 = 8f - 5$

11.  $60 = -5u - 10$

12.  $72 = -15y - 18$

...

13.  $-23 = -2 - 7f$

14.  $-44 = -14 - 3q$

15.  $47 = -44 - 13b$

16.  $-197 = -85 + 8m$

Type 2: Subtract then divide

17.  $2x + 6 = 12$

18.  $5x + 8 = 48$

19.  $7x + 11 = 25$

20.  $9x + 20 = 65$

...

21.  $3 + 2x = -9$

22.  $2 + 4x = -26$

23.  $12 + 2x = 36$

24.  $7 + 5x = 62$

...

25.  $6 = 2 - x$

26.  $-x + 3 = 8$

27.  $3 - x = 14$

28.  $-4 = -x + 7$

...

29.  $28 = -3k + 7$

30.  $-14 = -3k + 1$

31.  $85 = -4y + 25$

32.  $-23 = -13v + 29$



...

33.  $56 = 20 - 9s$

34.  $-7 = 41 + 4d$

35.  $-36 = 24 + 12a$

36.  $-27 = 71 + 14t$

Type 3: Add then multiply

37.  $\frac{x}{3} - 2 = 4$

38.  $\frac{x}{2} - 3 = 11$

39.  $\frac{x}{8} - 4 = 1$

40.  $\frac{x}{8} - 6 = 9$

...

41.  $\frac{x}{-2} - 7 = -16$

42.  $\frac{x}{-4} - 2 = -14$

43.  $\frac{x}{-7} - 15 = -22$

44.  $\frac{x}{-5} - 2 = 11$

...

45.  $-20 = \frac{1}{5}w - 25$

46.  $-23 = \frac{k}{9} - 17$

47.  $-17 = \frac{l}{13} - 10$

48.  $-11 = \frac{t}{12} - 2$



...

49.  $-14 = -5 + \frac{c}{9}$

50.  $-11 = -21 + \frac{1}{6}s$

51.  $-23 = -17 + \frac{-1}{8}l$

52.  $-18 = -9 + \frac{-1}{14}d$

Type 4: Subtract then multiply

53.  $\frac{x}{6} + 4 = 1$

54.  $\frac{x}{10} + 2 = 13$

55.  $\frac{x}{11} + 9 = 14$

56.  $\frac{x}{3} + 14 = 5$

...

57.  $\frac{x}{-8} + 15 = 13$

58.  $\frac{x}{-10} + 6 = -4$

59.  $\frac{x}{-9} + 11 = 20$

60.  $\frac{x}{-11} + 18 = 10$

...

61.  $20 = \frac{a}{-4} + 13$

62.  $12 = \frac{c}{13} + 1$

63.  $21 = \frac{1}{7}j + 8$

64.  $5 = \frac{-1}{14}t + 12$



...

65.  $23 = 14 + \frac{j}{6}$

66.  $25 = 17 + \frac{-a}{15}$

67.  $-11 = 1 + \frac{-1}{14}a$

68.  $-7 = 6 + \frac{f}{15}$

Type 1: Add then divide

1.  $x = 2$

2.  $x = 4$

3.  $x = 8$

4.  $x = 6$

5.  $x = 2$

6.  $x = 7$

7.  $x = -3$

8.  $x = -7$

9.  $z = 4$

10.  $f = -3$

11.  $u = -14$

12.  $y = -6$

13.  $f = 3$

14.  $q = 10$

15.  $b = -7$

16.  $m = -14$

Type 2: Subtract then divide

17.  $x = 3$

18.  $x = 8$

19.  $x = 2$





20.  $x = 5$

21.  $x = -6$

22.  $x = -7$

23.  $x = 12$

24.  $x = 11$

25.  $x = -4$

26.  $x = -5$

27.  $x = -11$

28.  $x = 11$

29.  $k = -7$

30.  $k = 5$

31.  $y = -15$

32.  $v = 4$

33.  $s = -4$

34.  $d = -12$

35.  $a = -5$

36.  $t = -7$

Type 3: Add then multiply

37.  $x = 18$

38.  $x = 28$

39.  $x = 40$



40.  $x = 120$

41.  $x = 18$

42.  $x = 48$

43.  $x = 49$

44.  $x = -65$

45.  $w = 25$

46.  $k = -54$

47.  $l = -91$

48.  $t = -108$

49.  $c = -81$

50.  $s = 60$

51.  $l = 48$

52.  $d = 126$

Type 4: Subtract then multiply

53.  $x = -18$

54.  $x = 110$

55.  $x = 55$

56.  $x = -27$

57.  $x = 16$

58.  $x = 100$

59.  $x = -81$



60.  $x = 88$

61.  $a = -28$

62.  $c = 143$

63.  $j = 91$

64.  $t = 98$

65.  $j = 54$

66.  $a = -120$

67.  $a = 168$

68.  $f = -195$