



# Linear Equations



## Level 1

1.  $3x = 12$

2.  $5x = 30$

3.  $10x = 70$

4.  $2x = 16$

5.  $6x = 18$

6.  $9x = 72$

7.  $15x = 75$

8.  $21x = 63$

9.  $13x = 104$

10.  $17x = 51$

11.  $2x = -8$

12.  $6x = -12$

13.  $5x = -45$

14.  $12x = -72$

15.  $15x = -30$

16.  $8x = -32$

17.  $-3x = 12$

18.  $-5x = 25$

19.  $-7x = 84$

20.  $-18x = 162$

21.  $-4x = 44$

22.  $-2x = -8$

23.  $-3x = -15$

24.  $-4x = -24$

25.  $-8x = -56$

26.  $-10x = -90$

27.  $-15x = -150$

28.  $-12x = -132$

29.  $3x = -27$

30.  $5x = 105$

31.  $-6x = 36$

32.  $-10x = -250$

33.  $-4x = 72$

34.  $19x = 57$

35.  $10 = 5x$

36.  $18 = 6x$

37.  $-25 = 5x$

38.  $-45 = -15x$

39.  $6x = 0$

40.  $78 = -2x$

41.  $0 = -7x$

42.  $10x = 5$



**Level 2**

1.  $2x + 5 = 17$
2.  $3x + 8 = 29$
3.  $5x + 8 = 53$
4.  $4x + 3 = 55$
5.  $10 + 7 = 97$
6.  $6x - 2 = 10$
7.  $7x - 5 = 37$
8.  $8x - 14 = 50$
9.  $2x - 17 = 93$
10.  $4x - 12 = 96$
11.  $6x - 20 = 10$
12.  $3x - 17 = 22$
13.  $2x + 11 = 5$
14.  $3x + 12 = 3$
15.  $6x + 17 = 5$
16.  $9x + 11 = -16$
17.  $4x + 7 = -5$
18.  $2x - 5 = -19$
19.  $7x - 3 = -24$
20.  $3x - 11 = -44$
21.  $12x + 12 = -108$
22.  $8x - 11 = -3$
23.  $2x - 7 = -5$
24.  $11x - 23 = 21$
25.  $3x - 25 = -19$
26.  $7x + 12 = 5$
27.  $8x + 17 = 1$
28.  $5x + 32 = 12$
29.  $2x + 7 = -5$
30.  $10x + 19 = -41$
31.  $9x + 25 = -20$
32.  $6x + 18 = -18$
33.  $5 - 2x = 27$
34.  $7 - 3x = 28$
35.  $9 - 5x = 74$
36.  $7 - 8x = 63$
37.  $3 - 4x = -21$
38.  $7 - 10x = -43$
39.  $12 - 7x = -72$
40.  $-5x - 18 = 22$
41.  $10 = 2x - 18$
42.  $19 = 5 - 7x$
43.  $22 = 3x - 2$
44.  $95 = 15 - 10x$
45.  $-15 = 2x + 17$
46.  $20 = 5x + 20$
47.  $8x - 13 = 11$
48.  $10x - 10 = 5$



**Level 3**

1.  $5x + 3 = 3x + 7$
2.  $9x + 4 = 5x + 16$
3.  $6x + 17 = 3x + 29$
4.  $8x + 11 = 7x + 16$
5.  $4x - 7 = 2x - 1$
6.  $6x - 8 = x + 27$
7.  $13x - 17 = 8x - 7$
8.  $23x - 11 = 19x + 13$
9.  $5x + 8 = 3x + 4$
10.  $11x + 19 = 6x + 4$
11.  $12x + 23 = 3x - 13$
12.  $9x + 6 = 3x - 24$
13.  $14x - 3 = 10x - 27$
14.  $13x - 9 = 8x - 44$
15.  $11x - 7 = 9x - 23$
16.  $16x - 5 = 6x - 95$
17.  $3x + 3 = 5x + 7$
18.  $3x + 17 = 6x + 29$
19.  $5x + 4 = 9x + 16$
20.  $7x + 11 = 8x + 16$
21.  $2x - 7 = 4x - 1$
22.  $8x - 17 = 13x - 7$
23.  $7x - 19 = 10x - 13$
24.  $19x - 19 = 14x + 6$
25.  $6x + 19 = 11x + 4$
26.  $3x + 6 = 9x - 24$
27.  $x + 5 = 3x + 1$
28.  $4x + 31 = 9x + 1$
29.  $5x - 18 = 11x$
30.  $7x - 37 = 4x - 67$
31.  $5x + 11 = 3x + 11$
32.  $4x - 28 = 10x - 28$
33.  $16 - 9x = 4 - 5x$
34.  $27 - 6x = -x - 8$
35.  $17 - 6x = 29 - 3x$
36.  $28 - 4x = 18 - 2x$
37.  $3x + 2x - 7 = 3x + 5 - 2$
38.  $11x - 3x + 11 = 7x + 21 - 5$
39.  $6x - 13 + 5 = 7x + 27 - 6x$
40.  $6x - 9 + 7x = 4 + 8x - 48$
41.  $10x - 17 - 2x = 13x + 13 - 20$
42.  $9x - 3x - 3 + 22 = 8x + 3x + 13 - 9$
43.  $x + 9x + 40 - 9 - 6x = 10x + 10 - x - 9$
44.  $30 + 8x - 2 - 12x = 20 - 2 - 2x$



**Level 4**

1.  $2(x + 5) = 16$
2.  $3(x + 4) = 30$
3.  $5(x - 7) = 55$
4.  $4(x - 2) = 8$
5.  $-3(x + 4) = 6$
6.  $-6(x + 5) = 18$
7.  $-2(x - 5) = 24$
8.  $-7(x - 4) = 7$
9.  $3(x + 2) = 2(x + 1)$
10.  $5(x + 3) = 3(x + 7)$
11.  $8(x + 2) = 5(x + 5)$
12.  $7(x - 4) = 2(x + 1)$
13.  $6(x - 5) = 2(x + 3)$
14.  $9(x - 3) = 4(x - 3)$
15.  $2(x + 5) = 5(x + 5)$
16.  $3(2x - 1) = 5(3x + 3)$
17.  $7(3x - 5) = 2(5x + 10)$
18.  $2(7x + 4) = 4(2x - 4)$
19.  $3(5x - 8) = 7(2x - 1)$
20.  $6(3x - 5) = 2(5x - 3)$
21.  $8(2x - 1) = 12(3x + 1)$
22.  $-2(3x + 5) = 4(x - 5)$
23.  $-3(2x - 1) = -5(x + 4)$
24.  $-2(4x - 8) = -4(3x + 5)$
25.  $7(x + 3) = -3(2x + 6)$
26.  $2(3x + 1) + 5 = 3(2x - 1) + 10$
27.  $5(4x - 3) - 4 = 3(5x + 2) - 20$
28.  $3(5x - 4) + 6 = 4(3x + 1) - 1$
29.  $2(2x + 3) - 11 = 7(x - 4) + 8$
30.  $10(2x + 8) = 5(4 - 3x) + 5(3x + 8)$
31.  $3(4x - 7) - 2(3 - 2x) = 5(6x - 9) - 2(4x + 3)$
32.  $2(5 - 2x) - 3(4x + 5) = 6(7 - x) - 4(x + 8) + 3$
33.  $5 + 3(2x + 1) = 4 + 4(3x - 2)$
34.  $3 - 7(5x - 2) = 14 - 4(3x + 5)$
35.  $15 + 2(5 - 3x) = 5 - 5(3 - x) - 20$
36.  $3 - 2(7 - 2x) = 9 + 6(8x + 4)$

