

## Linear Equations - 2 step

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### NUMERIC RESPONSE

1. Solve:  $41b + 19 = 470$

ANS: 11

NOT: Type:  $ax + b = c$  where a and x are between -100 and 100 inclusive,  $0 < b < 100$ .

2. Solve:  $-85p - 66 = 6224$

ANS: -74

NOT: Type:  $ax - b = c$  where a and x are between -100 and 100 inclusive,  $0 < b < 100$ .

3. Solve:  $8p + 4 = 36$

ANS: 4

NOT: Type:  $ax + b = c$  where a, b and x are between 1 and 10.

4. Solve:  $5c + 1 = -49$

ANS: -10

NOT: Type:  $ax + b = c$  where a & b are between 1 and 10 and x is negative and between -10 and -1.

5. Solve:  $18 = 5n + 3$

ANS: 3

NOT: Type:  $c = b + ax$  where a, b and x are between 1 and 10.

6. Solve:  $4 = 2a + 6$

ANS: -1

NOT: Type:  $c = b + ax$  where a & b are between 1 and 10 and x is negative and between -10 and -1.

7. Solve:  $10x - 6 = 24$

ANS: 3

NOT: Type:  $ax - b = c$  where a, b and x are between 1 and 10.

8. Solve:  $9x - 7 = -79$

ANS:  $-8$

NOT: Type:  $ax - b = c$  where  $a$  &  $b$  are between 1 and 10 and  $x$  is negative and between -10 and -1.

9. Solve:  $14 = 3n - 4$

ANS:  $6$

NOT: Type:  $c = ax - b$  where  $a$ ,  $b$  and  $x$  are between 1 and 10.

10. Solve:  $-21 = 2s - 9$

ANS:  $-6$

NOT: Type:  $c = ax - b$  where  $a$  &  $b$  are between 1 and 10 and  $x$  is negative and between -10 and -1.

11. Solve:  $8 + 3j = 32$

ANS:  $8$

NOT: Type:  $b + ax = c$  where  $a$ ,  $b$  and  $x$  are between 1 and 10.

12. Solve:  $10 + 10x = -20$

ANS:  $-3$

NOT: Type:  $b + ax = c$  where  $a$  &  $b$  are between 1 and 10 and  $x$  is negative and between -10 and -1.

13. Solve:  $83 = 2 + 9x$

ANS:  $9$

NOT: Type:  $c = b + ax$  where  $a$ ,  $b$  and  $x$  are between 1 and 10.

14. Solve:  $-47 = 3 + 5c$

ANS:  $-10$

NOT: Type:  $c = b + ax$  where  $a$  &  $b$  are between 1 and 10 and  $x$  is negative and between -10 and -1.

15. Solve:  $-22 = 2 - 8c$

ANS:  $3$

NOT: Type:  $c = b - ax$  where  $a$ ,  $b$  and  $x$  are between 1 and 10.

16. Solve:  $29 = 1 - 4q$

ANS:  $-7$

NOT: Type:  $c = b - ax$  where  $a$  &  $b$  are between 1 and 10 and  $x$  is negative and between -10 and -1.

17. Solve:  $6x + 86 = 500$

ANS:  $69$

NOT: Uses larger integers (less than or equal to 100).

18. Solve:  $6a + 93 = -3$

ANS:  $-16$

NOT: Uses larger integers (less than or equal to 100).  $x$  is negative & between -100 and -1.

19. Solve:  $418 = 10p + 78$

ANS:  $34$

NOT: Uses larger integers (less than or equal to 100).

20. Solve:  $-218 = 3t + 70$

ANS:  $-96$

NOT: Uses larger integers (less than or equal to 100).  $x$  is negative & between -100 and -1.

21. Solve:  $p + p + 10 = 30$

ANS:  $10$

NOT: Type:  $x + x + a = b$  where  $a$ ,  $b$  and  $x$  are between 1 and 10.

22. Solve:  $k + k + 5 = -1$

ANS:  $-3$

NOT: Type:  $x + x + a = b$  where  $a$  &  $b$  are between 1 and 10.  $x$  is negative & between -100 and -1.

23. Solve:  $h + 10 + h = 30$

ANS:  $10$

NOT: Type:  $x + x + a = b$  where  $a$ ,  $b$  and  $x$  are between 1 and 10.

24. Solve:  $x + 10 + x = -2$

ANS:  $-6$

NOT: Type:  $x + x + a = b$  where  $a$  &  $b$  are between 1 and 10.  $x$  is negative & between -10 and -1.

25. Solve:  $a + 1 + a = 13$

ANS:  $6$

NOT: Type:  $x + x + a = b$  where  $a$ ,  $b$  and  $x$  are between 1 and 10.

26. Solve:  $f + 1 + f = -5$

ANS:  $-3$

NOT: Type:  $x + x + a = b$  where  $a$  &  $b$  are between 1 and 10.  $x$  is negative & between -10 and -1.

27. Solve:  $7m + 6 + m = 86$

ANS:  $10$

NOT: Type:  $ax + b + x = c$  where  $a$ ,  $b$  and  $x$  are between 1 and 10.

28. Solve:  $9s + 7 + s = -33$

ANS:  $-4$

NOT: Type:  $ax + b + x = c$  where  $a$  &  $b$  are between 1 and 10.  $x$  is negative & between -10 and -1.

29. Solve:  $4n + 9 - n = 18$

ANS:  $3$

NOT: Type:  $ax + b + x = c$  where  $a$ ,  $b$  and  $x$  are between 1 and 10.

30. Solve:  $10h + 5 - h = -85$

ANS:  $-10$

NOT: Type:  $ax + b + x = c$  where  $a$  &  $b$  are between 1 and 10.  $x$  is negative & between -10 and -1.