Solving Linear Equations

Solve these equations

Red: Start with me

1. $5a = 21 + 2a$

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=

2. $2w = 18 - w$

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3. $9g = g + 16$

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4. $2d + 4 = 3d$

=

=

5. $6b = 15 + b$

=

=

6. $3t = 35 - 2t$

=

=

7. $7p = 60 - 3p$

=

=

8. $3f + 24 = 9f$

=

=

Orange: Move onto me

9. $5a = 2a - 9$

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10. $7a = 2a - 35$

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11. $6a - 12 = 8a$

=

=

12. $5d - 4 = 6d$

=

=

13. $3a = 12 + 7a$

=

=

14. $4t = 60 + 10t$

=

=

15. $11p + 54 = 5p$

=

=

16. $5q + 7 = 4q$

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Green: What about me?

17. $3a = 9 + a$

=

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18. $8 + 2g = 5g$

=

=

19. $22 - 2f = 3f$

=

=

20. $22 + 5k = 8k$

=

=

21. $5t + 7 = 2t$

=

=

22. $12m - 9 = 14m$

=

=

23. $2p + 8 = 5p$

=

=

24. $14 - 3h = 2h$

=

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Blue: Ultimate Challenge

1. $4x + 3 = 2x + 11$

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2. $7x + 4 = 10x - 20$

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3. $2x - 3 = 3 - 4x$

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=

4. $5x - 4 = 3x + 6$

=

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=

5. $5x - 2 = 2x + 4$

=

=

=

6. $4 - 3x = 10 - 5x$

=

=

=

7. $5x - 10 = 3x + 2$

=

=

=

8. $12x - 25 = 11 - 7x$

=

=

=

9. $6 - 2x = 11 - 7x$

=

=

=

10. $-3x - 5 = x + 15$

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=

=

11. $5x + 7 = 3x + 11$

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12. $9x + 7 = 15x + 1$

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=

=

13. $3x + 4 = 18 - 4x$

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14. $4 - 5x = 2x - 10$

=

=

=

15. $5x - 22 = 8 - 10x$

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=

=

16. $2x - 25 = 2 - 7x$

=

=

=

17. $3x + 2 = x + 12$

=

=

=

18. $7x - 42 = 2x - 7$

=

=

=

19. $1 - x = 9 - 9x$

=

=

=

20. $14x - 4 = 10x - 20$

=

=

=

Answers

Red

1. 7
2. 6
3. 2
4. 4
5. 3
6. 7
7. 6
8. 4

Amber

9. -3
10. -7
11. -6
12. -4
13. -3
14. -10
15. -9
16. -7

Green

17. 4.5
18. 2 2/3
19. 4 2/5
20. 7 1/3
21. -2 1/3
22. -4 ½
23. 2 2.3
24. 2 4/5

Blue

1. 4
2. 8
3. 1
4. 5
5. 2
6. 3
7. 6
8. 3
9. 1
10. -5
11. 2
12. 1
13. 2
14. 2
15. 2
16. 3
17. 5
18. 7
19. 1
20. -4