KEY

Solving Equations with variables on both sides of the equal sign.

TYPE III

A. Solve the following. 1-25

1. $7x + 2 = 5x + 8$ $x=3$
2. $6x + 4x + 2x = 48$ $x=4$
3. $4x + 5x = 81$ $x=9$
4. $3x - 4 = 2x + 9$ $x=13$
5. $7x - 8 = 3x + 4$ $x=3$
6. $2x + 5x = 21$ $x=3$
7. $7x - 3x + 2x = 36$ $x=6$
8. $6x + 2x = 48$ $x=6$
9. $10x - 3 = 5x + 7$ $x=2$
10. $35x - 10 = 32x + 20$ $x=10$
11. $7x - 8 = 2x + 12$ $x=4$
12. $4x - 3x + 5x = 96$ $x=16$
13. $2x + 3x + 4x = 72$ $x=8$
14. $5x + 2 = 3x + 18$ $x=8$
15. $7x - 9 = 3x + 31$ $x=10$
16. $4x - 8 = 3x + 5$ $x=13$
17. $4x - 3x + 2x = 51$ $x=17$
18. $5x + 6 = 3x + 14$ $x=4$
19. $3x - 5 = 2x + 7$ $x=12$
20. $9x + 2 = 5x + 30$ $x=7$
21. $6x + 5x - 2x = 63$ $x=7$
22. $4x + 3x = 7$ $x=1$
23. $5x + 2 = 3x + 2$ $x=0$
24. $8x - 5 = 7x + 10$ $x=15$
25. $9x + 3x + 4x = 64$ $x=4$ $=4$

B. Solve the following. 1-10

1. $6x + 5 = 2x + 13$ $x=2$
2. $10x + 75 - 5x = 110$ $x=7$
3. $4x + 3 + 5x - 2 = 64$ $x=7$
4. $4x + 2 = 3x + 8$ $x=6$
5. $6x - 4 = 2x + 100$ $x=26$
6. $4x - 3 = 29$ $x=8$
7. $5x + 7 = 3x + 9$ $x=1$
8. $9x - 3 = 4x + 22$ $x=5$
9. $8x - 3 = 2x + 9$ $x=2$
10. $35x - 10 = 32x + 20$ $x=10$
11. $18x + 3 = 2x + 51$ $x=3$
12. $4x - 3 = 2x + 9$ $x=6$
13. $8x - 5 = 3x + 5$ $x=2$
14. $9x - 4 = 2x + 10$ $x=2$
15. $7x - 5 = 3x + 11$ $x=4$
16. $6x + 5 = 2x + 13$ $x=2$
17. $3x - 5 + 2x = 75$ $x=16$
18. $4x + 5x - 8x = 10$ $x=10$
19. $7x - 2 = 3x + 10$ $x=3$
20. $6x - 3 = 2x + 5$ $x=2$
21. $16x + 2 = x + 32$ $x=2$
22. $x + x + x + 3 = 15$ $x=4$
23. $7x + 5 - 2x + 3 = 23$ $x=3$
24. $7x + 2x - 3x + 5 = 47$ $x=7$
25. $6x + 3 + 5x + 8 = 66$ $x=5$
26. $7x + 12 - 5x - 8 = 30$ $x=13$
27. $8x + 5 + 3x + 2 = 95$ $x=8$
28. $6x - 3 = 4x + 9$ $x=6$
29. $9x - 8 = 3x + 4$ $x=2$
30. $4x - 3x + 5x - 7 = 11$ $x=3$