DIRECTIONS

Answers without work to check. If you cannot find your mistake then please seek help EARLY! This assignment is worth 4 pts. 1) did you complete it 2) did you show all the work 3) did you correct in pen 4) did you get 75% of the problems correct?

Pg. 23 answers. Check the ones you were supposed to do for your assignment.

1. no; Solving the equation gives a statement that is never true, not one that is always true.

2. Use the Distributive Property to get $9x - 24 = 4x + 6$. Subtract $4x$ from each side to get $5x - 24 = 6$. Add 24 to each side to get $5x = 30$. Divide each side by 5 to get $x = 6$.

3. $x = 3$

4. $s = 2$

5. $p = 7$

6. $g = 5$

7. $t = -1$

8. $r = 1$

9. $x = \frac{1}{2}$

10. $w = -4$

11. $g = -4$

12. $t = 6$

13. $x = -3$

14. $t = 1$

15. $y = -12$

16. $x = \frac{1}{2}$

17. 2 h

18. 20 movies

19. no solution

20. $d = 2$; one solution

21. $h = 3$; one solution

22. infinitely many solutions

23. infinitely many solutions

24. no solution

25. In the second step, you should add $3c$ to each side;
$8c - 6 = 4, 8c = 10, c = \frac{5}{4}$

27. $60 + 42.95x = 25 + 49.95x$; 5th month

29. $r = -2$

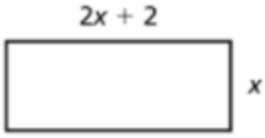
38. **a.** 6 yr

b. The left side shows the Spanish enrollment after x years, and the right side shows the French enrollment after x years; Solving the equation will indicate after how many years the enrollments will be equal.

39. **a.** *Sample answer:* $3x + 12 = 2x + x$; simplifies to a statement that is never true

b. *Sample answer:* $5x + 3 = 2x + 3 + 3x$; simplifies to a statement that is always true

40. *Sample answer:*



The perimeters are both $6x + 4$.

41. $-4, |2|, |-4|, 5, 9$

42. $-|21|, -16, |-10|, 22, |-32|$

43. $-19, -18, |-18|, |22|, |-24|$

44. $-|-3|, -2, -1, |0|, |2|$