Algebra 2 Chapter 1 Practice Test

Time> Start: _____ Finish: ____

Total Time = _____

Solve the following equations or inequalites for the given variable. Don't forget there can be NO SOLUTIONS, INFINITE NUMBER OF SOLUTIONS, or just 1 solution.

1.
$$-6(2a-3) = -2(5a+2)$$
 2. $4n = 2(2n-3)$

2.
$$4n = 2(2n - 3)$$

3.
$$\frac{2n-5}{6} = \frac{n+3}{2}$$

4.
$$-4n-2n-(n-4)=n-4$$

$$-4n-2n-(n-4)=n-4$$
 5. $2(3n-1)=-2+6n$ 6. $\frac{c-1}{2}+4=9$

6.
$$\frac{c-1}{2} + 4 = 9$$

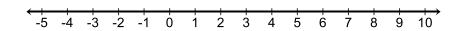
7.
$$5n-3 > -n+15$$

8.
$$-4n \le 8$$

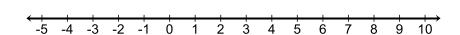
9.
$$-d + 18 - 12 \le -20$$

Graph the following Compound Inequalities

10.
$$n > -2$$
 AND $n \le 3$



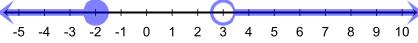
11.
$$4 < n \le 8$$

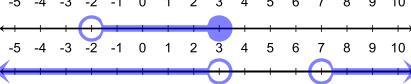


12.
$$n > 5 OR n < -2$$

13.
$$n \ge 3 \text{ OR } n \le 5$$

Consider the graphed inequalities and give the correct compound inequality expression.





Solve the following Absolute Value **Equations**.

17.
$$|n+1|-3=9$$

18.
$$-5 | n+4 | = -15$$

17.
$$|n+1| - 3 = 9$$
 18. $-5 |n+4| = -15$ 19. $|n+2| = 3n - 10$

Solve the following Absolute Value Inequalities - some might be No Solution or Infinite #.

20.
$$|2n+1| \le 19$$

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 21. $|2n+3| < 14$ 22. $|n+7| > -5$

22.
$$|n+7| > -5$$

23.
$$\left| -2n + 3 \right| > 11$$

24.
$$|2n+1| \le -7$$

23.
$$|-2n+3| > 11$$
 24. $|2n+1| \le -7$ 25. $\frac{|2x-4|}{3} > 2$

26.	How many solutions does	2	-x-3	= 6 have
	2		I	

_____ 27. Which is NOT a solution for |3x + 6| < 12?
A. -4
B. 3
C. 1
D. -1

_____ 28. How many roots does -2 | 2x - 1 | = 8 have?

_____29. How many solutions can Absolute value <u>equations</u> have?

- A. 0
- B. 1
- C. 2
- D. 0 OR 1
- E. 1 OR 2
- F. O, 1, OR 2

30. Explain below what is meant by an extraneous solution?