

Name _____
Algebra 2 – Chapter 1 Test Recovery

1. Name the property illustrated by the equation $(3+4)+2=3+(4+2)$.
2. Name the sets of numbers to which -1 belongs.
3. Name the sets of numbers to which 2.5 belongs.
4. Select the algebraic expression that represents the verbal expression the sum of 15 times a number and 7 .
5. Which equation could be used to solve the following problem? The sum of 3 times a number and 7 is 31. Find the numbers.

Solve each inequality.

6. $-4w + 16 \geq 32$

8. $-4 \leq 8y + 4 \leq 20$

7. $x - 3 \leq 5$ or $2 - 2x < 1$

9. $|m + 6| > 1$

10. Graph the solution set of $7 > b + 2$.

Evaluate the expression if $a=3$, $b=-\frac{3}{5}$ and $c=1.5$

11. $1.5c - 7b$

12. $-9(a-6)$

13. Simplify $7x + 3y - 4x - 5y$

Solve each equation below.

14. $\frac{1}{4}x = 4$

15. $4(2x - 4) = x + 5$

16. $|x - 6| = 20$

17. $-12|x + 2| = 24$

18. David earns \$5.60 an hour working at Target. Each week, 25% of his total pay is deducted for taxes. If David wants his take-home pay to be at least \$105 a week, solve the inequality $5.6x - 0.25(5.6x) \geq 105$ to determine how many hours he must work.