

ALGEBRA 1

Name _____

1-8 PRACTICE: AN INTRODUCTION TO EQUATIONS**Determine whether each equation is *true*, *false*, or *open*. Show work when appropriate.**

1. $85 + (-10) = 95$

2. $-8(-2) - 7 = 14 - 5$

3. $5x + 7 = 17$

4. $91 \div (-7) - 5 = 35 \div 7 + 3$

Determine whether the given number is a solution of the equation. SHOW WORK!

5. $8x + 5 = 29; x = 3$

6. $5b + 1 = 16; b = -3$

7. $-6m + 5 = -2; m = \frac{1}{2}$

8. $14 = \frac{1}{3}x + 5; x = 27$

Translate each equation into an algebraic sentence.9. The sum of $4x$ and -3 is 8 . _____10. The product of 9 and the sum of 6 and x is 1 . _____

Use a table to find the solution of each equation.

11. $2x - 1 = 11$

x	$2x - 1 = 11$	Value

12. $8 - 5w = -12$

w	$8 - 5w = -12$	Value

13. Evaluate $pm - n$ if $m = 4, n = -1$ and $p = -\frac{1}{2}$.