	UNIT 1 EQUATIONS AND INEQUALITIES REVIEW	
Name:	Date:	Period:

Complete this review guide and review all past notes and homework assignments in preparation for your assessment.

Part 1: The Real Number System

Check off all set categories to which the number belongs to.

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		Irrational	Rational	Integer	Whole Number	Natural Number
1.	4					
2.	8.46					
3.	- 9					
4.	0					
5.	9.1243					
6.	$\sqrt{2}$					
7.	$\frac{7}{8}$					

Part 2: Evaluating Expressions

Evaluate each expression for the given values.

8. Evaluate $(a + y)^2 + 2y$ if $a = 5$, $y = -3$. 9. Evaluate	$z^2x + z^2w$ if $x = 4$, $w = 5$, $z = -2$
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10. Use the formula $F = \frac{9}{5}C + 32$ to find the value of F if C = 15.

Part 3: Solving Equations

Solve each equation. Show all your work. Simplify each of your answers. Leave as improper fractions.

125(m-5) = 3(10-2m) + m
$14.\frac{1}{2}y = 8$
2

Part 4: Solving Absolute Value Equations
Solve each absolute value equation. Show all your work.

16. x-5 =4
10 6 0 7 7 40
8.6 + 3 x - 7 = 12

Part 5: Solving and Graphing Inequalities

Solve each inequality. Graph the solution on the number line.

