

**PRE-ALGEBRA**  
**SEMESTER 1 ASSESSMENT ITEM SPECIFICATION SHEET & KEY**



<b>Free Response</b>						
#	Objective	Syllabus Objective	NV State Standard			
1	Represent numbers using scientific notation.	3.5	1.8.1			
2	Solve equations with variables on both sides. Evaluate variable and numerical expressions using the order of operations.	1.1 2.6	2.8.2			
3	Solve problems using proportions Identify, explain and apply mathematics in everyday life.	3.8 3.12	3.8.5 3.8.1			
<b>Multiple Choice</b>						
#	Objective	Syllabus Objective	NV State Standard	08/09 Practice Key A	08/09 Practice Key B	09/10 Final Key
1	Evaluate variable expressions.	1.1	2.8.2	D	A	
2	Identify and use powers.	1.1	2.8.2	D	C	
3	Use order of operations to evaluate expressions.	1.1	2.8.2	C	B	
4	Compare and order integers.	1.2	1.8.3	A	A	
5	Evaluate absolute value expressions.	1.1	2.8.2	D	D	
6	Operate with integers.	1.3	1.8.7	C	A	
7	Operate with integers.	1.3	1.8.7	C	A	
8	Operate with integers.	1.3	1.8.7	A	B	
9	Identify and plot points on a coordinate plane.	4.1 4.2	4.6.3	D	C	
10	Identify properties of addition and multiplication.	2.1	2.8.2	A	B	
11	Identify properties of addition and multiplication.	2.1	2.8.2	A	B	
12	Identify properties of addition and multiplication.	2.1	2.8.2	B	C	
13	Simplify variable expressions.	2.2	2.7.3	B	D	
14	Use variable expressions to find a solution to an everyday situation.	2.2	2.7.3 2.8.2	A	D	
15	Solve one-step equations.	2.3	2.8.2	B	C	
16	Solve one-step equations.	2.3	2.8.2	C	D	
17	Solve one-step equations.	2.3	2.8.2	A	D	
18	Solve one-step equations involving decimals.	3.1 3.2	1.8.7 2.8.5	D	B	
19	Solve 2-step equations.	2.4	2.8.5	A	A	
20	Solve 2-step equations.	2.4	2.8.5	B	C	
21	Solve 2-step equations.	2.4	2.8.5	D	B	
22	Solve multi-step equations.	2.5	2.8.2	D	D	
23	Solve equations with variables on both sides.	2.6	2.8.2	A	B	
24	Use an equation to find a solution to an everyday situation.	2.6	2.8.2	C	D	
25	Solve one-step inequalities.	2.8	2.8.2 2.8.5	A	A	
26	Solve one- or two-step inequalities.	2.8	2.8.2 2.8.5	A	B	
27	Solve two-step inequalities.	2.8	2.8.2 2.8.5	C	D	
28	Solve and graphically represent equations and inequalities, including absolute value.	1.4 2.9	2.8.5	D	C	

**PRE-ALGEBRA  
SEMESTER 1 ASSESSMENT ITEM SPECIFICATION SHEET & KEY**



<b>Multiple Choice</b>						
<b>#</b>	<b>Objective</b>	<b>Syllabus Objective</b>	<b>NV State Standard</b>	<b>08/09 Practice Key A</b>	<b>08/09 Practice Key B</b>	<b>09/10 Final Key</b>
29	Write the prime factorization of a number.	3.3	1.6.8	B	B	
30	Find the GCF of two or more numbers, including monomial terms.	3.3	1.6.8	D	D	
31	Write equivalent fractions, including algebraic fractions.	3.7	1.8.2	A	B	
32	Find the LCM of two or more numbers, including monomial terms.	3.4	1.6.8	D	C	
33	Convert numbers between scientific notation and standard form.	3.5	1.8.1	B	C	
34	Convert numbers between scientific notation and standard form.	3.5	1.8.1	D	A	
35	Write equivalent rational numbers.	3.7	1.8.2	B	D	
36	Write fractions as decimals and vice versa.	3.7	1.8.2	C	C	
37	Write fractions as decimals and vice versa.	3.7	1.8.2	D	B	
38	Compare and order rational numbers.	3.6	1.8.2	B	A	
39	Operate with rational numbers.	3.9	1.7.7	D	B	
40	Evaluate expressions with rational numbers.	3.9	1.7.7	B	A	
41	Operate with rational numbers.	3.9	1.7.7	B	D	
42	Use multiplicative inverses to solve equations.	3.10	1.8.8	A	A	
43	Use the LCD to solve equations and inequalities.	3.10	2.8.5	C	C	
44	Find and compare unit rates.	3.11	3.8.5	C	C	
45	Find unit rates.	3.11	3.8.5	B	A	
46	Graph the solution set of a linear equation in one variable.	2.7	3.8.1	B	B	
47	Write and solve proportions.	3.12	3.8.5	B	A	
48	Find the ratio of corresponding side lengths of similar figures.	5.1	4.8.2	C	C	
49	Find unknown side lengths of similar figures.	5.2	4.8.2	A	B	
50	Apply ratios and proportions to solve problems involving indirect measurement.	5.2	4.8.2	C	A	