

PRE-ALGEBRA 8
SEMESTER 1 ASSESSMENT ITEM SPECIFICATION SHEET & KEY



Free Response						
#	Objective	Syllabus Objective	NV State Standard			
1	Represent numbers using scientific notation.	2.2	1.8.1			
2	Solve equations with variables on both sides. Evaluate variable and numerical expressions using the order of operations.	1.1 1.17	2.8.2			
3	Solve problems using proportions Convert units of measure for mass and capacity. Identify, explain and apply mathematics in everyday life.	2.11 4.14	3.8.5 3.8.1			
Multiple Choice						
#	Objective	Syllabus Objective	NV State Standard	08/09 Practice Key	08/09 Final Key*	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 1.3	1.8.3	A	A	
5	Evaluate absolute value expressions.	1.1	2.8.2	D	D	
6	Operate with integers.	1.4–1.7	1.8.7	C	A	
7	Operate with integers.	1.4–1.7	1.8.7	C	A	
8	Operate with integers.	1.4–1.7	1.8.7	A	B	
9	Identify and plot points on a coordinate plane.	1.8 1.9	4.6.3	D	C	
10	Identify properties of addition and multiplication.	1.10	2.8.2	A	B	
11	Identify properties of addition and multiplication.	1.10	2.8.2	A	B	
12	Identify properties of addition and multiplication.	1.10	2.8.2	B	C	
13	Simplify variable expressions.	1.11	2.7.3	B	D	
14	Use variable expressions to find a solution to an everyday situation.	1.11	2.7.3 2.8.2	A	D	
15	Solve one-step equations.	1.12	2.8.2	B	C	
16	Solve one-step equations.	1.12	2.8.2	C	D	
17	Solve one-step equations.	1.12	2.8.2	A	D	
18	Solve one-step equations involving decimals.	1.13 1.14	1.8.7 2.8.5	D	B	
19	Solve 2-step equations.	1.15	2.8.5	A	A	
20	Solve 2-step equations.	1.15	2.8.5	B	C	
21	Solve 2-step equations.	1.15	2.8.5	D	B	
22	Solve multi-step equations.	1.16	2.8.2	D	D	
23	Solve equations with variables on both sides.	1.17	2.8.2	A	B	
24	Use an equation to find a solution to an everyday situation.	1.17	2.8.2	C	D	
25	Solve one-step inequalities.	1.19 1.20	2.8.2 2.8.5	A	A	
26	Solve one- or two-step inequalities.	1.19 1.20	2.8.2 2.8.5	A	B	
27	Solve two-step inequalities.	1.19 1.20	2.8.2 2.8.5	C	D	
28	Solve and graphically represent equations and inequalities, including absolute value.	1.20	2.8.5	D	C	

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#	Objective	Syllabus Objective	NV State Standard	08/09 Practice Key	08/09 Final Key*	09/10 Final Key
29	Write the prime factorization of a number.	2.1	1.6.8	B	B	
30	Find the GCF of two or more numbers, including monomial terms.	2.1	1.6.8	D	D	
31	Write equivalent fractions, including algebraic fractions.	2.22	1.8.2	A	B	
32	Find the LCM of two or more numbers, including monomial terms.	2.1	1.6.8	D	C	
33	Convert numbers between scientific notation and standard form.	2.2	1.8.1	B	C	
34	Convert numbers between scientific notation and standard form.	2.2	1.8.1	D	A	
35	Write equivalent rational numbers.	2.22	1.8.2	B	D	
36	Write fractions as decimals and vice versa.	2.3	1.8.2	C	C	
37	Write fractions as decimals and vice versa.	2.3	1.8.2	D	B	
38	Compare and order rational numbers.	2.3	1.8.2	B	A	
39	Operate with rational numbers.	2.4–2.7	1.7.7	D	B	
40	Evaluate expressions with rational numbers.	2.4–2.7	1.7.7	B	A	
41	Operate with rational numbers.	2.4–2.7	1.7.7	B	D	
42	Use multiplicative inverses to solve equations.	2.8	1.8.8	A	A	
43	Use the LCD to solve equations and inequalities.	2.9	2.8.5	C	C	
44	Find and compare unit rates.	2.10	3.8.5	C	C	
45	Find unit rates.	2.10	3.8.5	B	A	
46	Convert units of measure within the same measurement system.	4.14	3.8.1	C	C	
47	Write and solve proportions.	2.11	3.8.5	B	A	
48	Find the ratio of corresponding side lengths of similar triangles.	2.12	4.8.2	C	C	
49	Find unknown side lengths of similar figures.	2.13	4.8.2	A	B	
50	Apply ratios and proportions to solve problems involving indirect measurement.	2.13	4.8.2	C	A	