

NSCSC 8th Grade Pre-Algebra Benchmark Checklist

*Note: These Benchmarks are expectations for this course.

Key to reading Benchmark Checklist

- Open Dot (o) with score – denotes skill(s) met
- Solid Dot (●) – denotes skill(s) not met
- Checkmark through dot (◐) – denotes skill remediated and met

Students are able to:

Percent of Benchmarks Mastered: _____

Number	Description	Standard	Mastery	Student Score			
				1 st Try	2 nd Try	3 rd Try	4 th Try
o 19	Find and apply slope. (Pre-Alg – Chap. 8, Sec. 4,5)	8.3.5, 8.3.6	75%				
o 24	Write and understand ratios. (Pre-Alg – Chap. 6, Sec. 1)	8.5.3	75%				
o 25	Make and interpret various types of statistical graphs and compute quartiles. (Pre-Alg – Chap. 12, Sec. 1,2,3)	8.6.3 8.6.4	75%				
o 28	Solve word problems using proportions. (Pre- Alg – Chap. 6, Sec. 2)	8.5.3	75%				
o 29	Compute simple interest, discounts, and sales tax. (Pre-Alg – Chap. 6, Sec. 7)	8.2.2	75%				
o 31	Compute and solve problems involving Pythagorean Theorem. (Pre-Alg – Chap.9, Sec. 5)	8.4.5	75%				
o 32	Solve problems involving area, surface area, and volume. (Pre-Alg – Chap. 10, Sec. 5, 7,8 and Chap. 11, Sec. 2,3,4,5)	8.5.4 8.5.5	75%				
o 33	Understand the concepts of probability. (Pre-Alg – Chap. 12, Sec. 6,7,9)	8.6.6, 8.6.7	75%				
o 35	Solve systems of equations by graphing. (Pre-Alg – Chap. 8, Sec. 9)	8.3.2	75%				
o 41	Translate verbal phrases and sentences to algebraic expressions and equations. (Pre-Alg – Chap. 1, Sec. 3,5)	8.3.1	75%				
o 42	Simplify numerical expressions. (Pre-Alg – Chap. 1, Sec. 2)	8.1.5 8.3.4	75%				
o 43	Add, subtract, multiply, and divide positive and negative fractions. (Pre-Alg – Chap. 5, Sec. 3,4,5,7)	8.2.1	75%				
o 44	Solve equations with more than one operation, having variables on both sides. (Pre-Alg – Chap. 7, Sec. 1,2)	A1.2.1	75%				
o 46	Solve proportions. (Pre-Alg – Chap. 6, Sec. 2 #28,29, and Handout)	A1.7.2	75%				
o 47	Solve word problems using percents and proportions. (Pre-Alg – Chap. 6, Sec. 5,7)	A1.2.6	75%				
o 51	Graph linear equations. (Pre-Alg – Chap. 8, Sec. 2,3,6)	A1.4.1	75%				
o 52	Simplify algebraic expressions. (Pre-Alg – Chap. 3, Sec. 2)	A1.1.3	75%				

