

NSCSC 7th Grade Mathematics Benchmark Checklist

*Note: These Benchmarks are expectations for this course.

Student Name: _____

Key to reading Benchmark Checklist

Teacher: _____

- 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 1	Solve numerical expressions involving order of operations. (Course 2-Chap. 1 Sec. 3)	7.1.4, 7.2.1, 7.3.4	75%				
o 2	Writing numbers in standard form and scientific notation. (Course 2 – Chap. 1 Sec. 9 and handouts with negative exponents)	7.1.1	75%				
o 3	Number sense and computation with rational numbers. (Handouts)	7.1.2, 7.1.7, 7.2.1, 7.2.4, 7.2.5	75%				
o 4	Analyze and interpret graphs. (Course 2 – Chap. 2 Sec. 2,3,5,7)	7.6.1	75%				
o 6	Find the prime factorization of a number in exponential form. (Course 2 – Chap. 5 Sec. 1)	7.1.5	75%				
o 7	Solve numerical expressions involving positive and negative integers. (Course 2 – Chap. 3, Sec. 4, 5, 6, 7)	7.2.1	75%				
o 8	Add and subtract fractions. (Course 2 – Chap. 6, Sec. 2, 3)	7.2.1, 7.2.5	75%				
o 9	Multiply and divide fractions. (Course 2 – Chap. 6, Sec. 4, 6)	7.2.1, 7.2.5	75%				
o 10	Solve problems with ratio and proportion. (Course 2 – Chap. 7 Sec. 1, 2, 3, 4)	7.5.3	75%				
o 11	Compute perimeter and area. (Course 2 – Chap. 6 Sec. 8,9; Chap. 11 Sec. 5)	7.5.4	75%				
o 12	Solve problems using the Pythagorean Theorem. (Course 2 – Chap. 11, Sec. 3)	7.4.3	75%				
o 13	Compute surface area and volume. (Course 2 – Chap. 11, Sec. 4, 5,6,7; Chap. 12 Sec. 2, 3,4,5)	7.5.6	75%				
o 14	Solve equations and inequalities. (Course 2 – Chap. 4, Sec. 2,3,4,5)	7.3.1, 7.3.2	75%				
o 15	Translating words in to mathematical expressions, equations, and inequalities. (Course 2 – Chap. 1, Sec. 4,5)	7.3.1	75%				
o 16	Compute percentage increase and decrease. (Course 2 – Chap. 8, Sec. 4)	7.2.2	75%				
o 17	Compute discount, markup, and commission. (Course 2 – Chap. 8, Sec. 5)	7.2.3	75%				
o 18	Use graphs to identify and interpret transformations. (Course 2 – Chap. 10 Sec. 8, 8b, 9, 9b)	7.4.1, 7.4.2	75%				
o 19	Find and apply slope. (Course 2 – Chap. 4, Sec. 7)	7.3.6, 7.3.7, 7.3.8	75%				
o 20	Understand the basic concepts of probability in percent, fraction and decimal form. (Course 2 – Chap. 9, Sec. 1,2,7)	7.6.5, 7.6.6, 7.6.7	75%				
o 30	Compute squares and square roots. (Course 2 – Chap. 11, Sec. 1)	8.1.7	75%				