

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