

## Promotion Benchmarks: Mathematics 7

No.	Student Performance*	POS/SOL
1	The student will compare, order, and determine equivalent relationships between fractions, decimals, and percents, and numbers written in scientific notation.	7.1
2	The student will simplify expressions that contain rational numbers and positive exponents, using order of operations, mental mathematics, and appropriate tools.	7.2
3	The student will identify and apply properties of operations with real numbers.	7.3
4	The student will a) solve practical problems using rational numbers and percents; and b) solve consumer-application problems.	7.4
5	The student will formulate rules for and solve practical problems involving basic operations with integers.	7.5
6	The student will use proportions to solve practical problems.	7.6
7	The student, given appropriate dimensions, will a) estimate and find the area of polygons b) apply perimeter and area formulas in practical situations.	7.7
8	The student will investigate and solve problems involving the volume and surface area of rectangular prisms and cylinders.	7.8
9	The student will compare and contrast quadrilaterals.	7.9
10	The student will identify and draw polygons.	7.10
11	The student will determine if geometric figures are similar and write proportions to express the relationships between corresponding parts of similar figures.	7.11
12	The student will identify and graph ordered pairs in the four quadrants of a coordinate plane.	7.12
13	The student, given a polygon in the coordinate plane, will represent transformations.	7.13
14	The student will investigate and describe the difference between the probability of an event found through simulation versus the theoretical probability of that same event.	7.14
15	The student will identify and describe the number of possible arrangements of several objects.	7.15
16	The student will create and solve problems involving the measures of central tendency and the range of data.	7.16
17	The student, given a problem situation, will collect, analyze, display, and interpret data, using a variety of graphical methods.	7.17
18	The student will make inferences, conjectures, and predictions based on analysis of a set of data.	7.18
19	The student will represent, analyze, and generalize a variety of patterns with tables, graphs, rules, and words in order to investigate and describe functional relationships.	7.19
20	The student will write verbal expressions as algebraic expressions and sentences as equations.	7.20
21	The student will use algebraic terms appropriately.	7.21
22	The student will a) solve one-step linear equations and inequalities in one variable. b) solve practical problems requiring the solution of a 1 step equation.	7.22

\*Please note that these are abbreviated versions of the Promotion Benchmarks for Mathematics 7. For a full version please see your mathematics teacher.