

## MATHEMATICAL PRACTICE CHECKLIST Grades 5-12

STUDENT \_\_\_\_\_ DATE \_\_\_\_\_ SCORE \_\_\_\_\_

### 1. SENSE OF PROBLEM

- Make sense of problems and persevere in solving them, e.g. write in your own words, highlight or underline important information, try a smaller problem, etc.

### 2. REASON

- Reason abstractly and quantitatively, e.g. write an equation, define a variable, use numbers, symbols, or graphics to solve a problem.

### 3. ARGUMENTS

- Construct viable arguments and critique the reasoning of others, e.g. explain the reasoning, justify/validate a conclusion, proof or counter example.

### 4. MODEL

- Model with mathematics that may include using graphic organizers, charts, tables, manipulatives, formulas, and technology.

### 5. TOOLS

- Use appropriate tools strategically, e.g. rulers, protractors, pencil and paper, computers, calculators, etc.

### 6. PRECISION

- Attend to precision, e.g. appropriate vocabulary and labeling, accurate calculations and solutions, etc.

### 7. STRUCTURE

- Look for and make use of structure, e.g. patterns or procedures.

### 8. REPEATED REASONING

- Look for and express regularity in repeated reasoning, e.g. finding the shortcuts to generalize the rule.