

**3501.0720 GRADE 4 STANDARDS.****Subpart 1. Number and operation.**

A. The student will demonstrate mastery of multiplication and division basic facts. The student will multiply multidigit numbers and solve real-world and mathematical problems using arithmetic.

B. The student will represent and compare fractions and decimals in real-world and mathematical situations. The student will use place value to understand how decimals represent quantities.

**Subp. 2. Algebra.**

A. The student will use input-output rules, tables, and charts to represent patterns and relationships and to solve real-world and mathematical problems.

B. The student will use number sentences involving multiplication, division, and unknowns to represent and solve real-world and mathematical problems. The student will create real-world situations corresponding to number sentences.

**Subp. 3. Geometry and measurement.**

A. The student will name, describe, classify, and sketch polygons.

B. The student will understand angle and area as measurable attributes of real-world and mathematical objects. The student will use various tools to measure angles and areas.

C. The student will use translations, reflections, and rotations to establish congruency and understand symmetries.

Subp. 4. **Data analysis.** The student will collect, organize, display, and interpret data, including data collected over a period of time and data represented by fractions and decimals.

**Statutory Authority:** *MS s 120B.023*

**History:** *33 SR 507*

**Published Electronically:** *October 3, 2013*