

Content Standards & Benchmarks: Mathematics
Grade 7
West Des Moines Community School District

- Standard #1: Students will use mathematics to solve problems, communicate, and work with others.
- 7.1.a write algebraic expressions.
 - 7.1.b solve 1-step equations.
- Standard #2: Students will use measurement skills.
- 7.2.c classify types of angles.
 - 7.2.d find the perimeter and area of polygons.
 - 7.2.e find the area and circumference of circles.
- Standard #3: Students will use reasoning skills, mental mathematics, and estimation skills.
- 7.3.f use the divisibility rules of 2, 5, and 10.
 - 7.3.g multiply and divide powers of 10.
 - 7.3.h round to a given place value.
- Standard #4: Students will perform mathematical operations and see relationships among numbers.
- 7.4.i identify the commutative, associative, and identity properties.
 - 7.4.j solve problems using the order of operations.
 - 7.4.k multiply and divide fractions.
 - 7.4.l add, subtract, multiply, and divide integers.
 - 7.4.m find percent of a number.
 - 7.4.n convert percents, fractions, and decimals.
 - 7.4.o calculate LCM and GCF of a given set of numbers.
- Standard #5: Students will demonstrate a development of spatial sense.
- 7.5.p identify polygons having 5-10 sides.
 - 7.5.q graph ordered pairs.
 - 7.5.r classify triangles by sides and angles
 - 7.5.s classify quadrilaterals.
- Standard #6: Students will collect and analyze data.
- 7.6.t calculate mean, median, mode, and range.
 - 7.6.u analyze a circle, bar, and line graph.
- Standard #7: Students will use patterns and relationships to solve problems.
- 7.7.v evaluate a number in exponential form.
 - 7.7.w use a proportion to solve a word problem.