

Content Standards & Benchmarks: Mathematics
Grade 8
West Des Moines Community School District

- Standard #1: Students will use mathematics to solve problems, communicate, and work with others.
- 8.1.a write open number phrases and sentences.
 - 8.1.b write one variable equations for story problems with one or more unknowns (age, integer, coin, mixture problems).
 - 8.1.c solve transformations.
- Standard #2: Students will use measurement skills.
- 8.2.d calculate perimeter and area of irregular polygons.
 - 8.2.e convert within metric units and standard units.
- Standard #3: Students will use reasoning skills, mental mathematics, and estimation skills.
- 8.3.f use the divisibility rules of 2,3,4,5,6,9,10
 - 8.3.g apply distributive property.
 - 8.3.h estimate (multiple choice).
- Standard #4: Students will perform mathematical operations and see relationships among numbers.
- 8.4.i simplify order of operations problems with integers.
 - 8.4.j solve problems with rational number.
 - 8.4.k solve word problems using percents
- Standard #5: Students will demonstrate a development of spatial sense.
- 8.5.l identify and compute the angle relationships of parallel lines.
 - 8.5.m determine angle measurement using complementary, supplementary, and vertical angles
- Standard #6: Students will analyze data.
- 8.6.n analyze histograms and scatter plots.
 - 8.6.o find the measure of central tendency using a stem-and-leaf plot.
- Standard #7: Students will use patterns and relationships to solve problems.
- 8.7.p select and use a formula to find volume and surface area.
 - 8.7.q solve function problems.
 - 8.7.r express numbers in scientific notation and standard form.
 - 8.7.s determine square roots