

6th GRADE MATH GLCE's 2005-2006

NUMBERS and OPERATIONS

- 1 **Knows math facts**
- 2 N.FL.06.15 Solve applied problems that use the four operations
- 4 **Round up to the hundredths place**
- 5 N.ME.06.05 Order rational numbers and place them on the number line
- 6 N.ME.06.06 Represent rational numbers as fractions or terminating decimals
- 7 N.FL.06.12 Calculate part of a number given the percentage and the number
- 8 N.FL.06.13 Solve word problems involving percentages in such contexts as sales tax
- 9 N.ME.06.11 Find equivalent ratios by scaling up or scaling down
- 10 N.ME.06.07 Understand that a fraction is a quotient of two integers
- 11 N.ME.06.01 Understand division of fractions as the inverse of multiplication
- 12 N.FL.06.10 Add, subtract, multiply, and divide positive rational numbers subfluently
- 14 N.FL.06.04 Multiply and divide any two fractions, including mixed numbers, fluently
- 15 N.FL.06.02 Given an applied situation involving dividing fractions, write a statement
- 16 N.MR.06.03 Solve for the unknown in equations
- 17 N.FL.06.14 For applied situations, estimate the answers to calculations
- 18 N.ME.06.17 Locate negative rational numbers (including integers) on the number line
- 19 N.ME.06.19 Understand that 0 is an integer that is neither negative or positive

GEOMETRY

- 1 **.01A Understands triangle inequality**
- 2 **.01B Understands relationships of vertical, complimentary, and supplementary angles**
- 3 **.01C Understands relationships between corresponding angles and parallel lines**
- 4 **.01D Can measure and calculate interior and exterior angles of any triangle**
- 5 **.01E Know that the sum of the exterior angles of a convex polygon is 360°**
- 6 G.GS.06.02 Understand that for polygons, congruence means corresponding sides **and angles have equal measures**
- 7 G.TR.06.03 Understands the basic rigid motions in the plane (**reflections, rotations, translations**), **relate these to congruence, and apply them to solve problems**
- 8 G.TR.06.04 Understand and use simple compositions of basic rigid transformations, (**e.g., a translation followed by a reflection**)

MEASUREMENT

- 1 M.PS.06.02 Draw patterns for a cube and rectangular prism that will cover the solid
- 2 M.TE.06.03 Compute the volume and surface area of cubes and rectangular prisms
- 3 M.UN.06.01 Convert between basic units of measurement

INTEGERS

- 1 N.ME.06.20 Know that the absolute value of a number is the value of the number
- 2 **.09A Can add and subtract integers between -10 and 10**
- 3 **.09B Can multiply and divide integers between -10 and 10**

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ALGEBRA

- 1 A.RP.06.02 Plot ordered pairs of integers and use ordered pairs to identify points
- 2 A.FO.06.03 Use letters with units, to represent quantities in a variety of contexts
- 3 A.FO.06.04 Distinguish between an algebraic expression and an equation
- 4 A.FO.06.05 Use standard conventions for writing algebraic expressions
- 5 A.FO.06.06 Represent information given in words using algebraic expressions
- 6 A.FO.06.07 Simplify expressions of the first degree by combining like terms
- 7 A.FO.06.11 Relate simple linear equations with integer coefficients to contexts
- 8 A.FO.06.12 Understand that adding the same number creates a new equation
- 9 A.FO.06.13 Understand that multiplying an equation creates a new equation
- 10 A.FO.06.14 Solve equations of the form $ax + b = c$
- 11 A.PA.06.01 Solve applied problems involving rates including speed
- 12 A.RP.06.08 Understand that relationships between quantities can be suggested by graphs
- 13 A.RP.06.10 Represent simple relationships between quantities

DATA and PROBABILITY

- 1 D.PR.06.01 Express probabilities as fractions, decimals, or percentages between 0 and 1
- 2 D.PR.06.02 Compute probabilities of events from simple experiments