EDUHSD Algebra 1 Challenge Placement Exam for Incoming 9th Graders

This exam is for students who wish to test out of Algebra One and accelerate into Geometry as a freshman. It is our strong recommendation the student then follows-up with Advanced Algebra 2. In order to do so, the student must demonstrate competence in the following Algebra 1 categories. **This exam consists of all short answer questions and a scientific calculator is allowed.** Scientific calculators will be provided by the administering school site for the exam.

Recommendation for acceleration into Geometry will be based on:

- **Scoring at least an 80% overall total score**

Prerequisites:

A student who wants to take challenge placement exam must have met at least one of the following prerequisites:

- Currently in an 8th grade course 3 (or equivalent) with 90% or better. **OR**
- Currently in Algebra 1 in 8th grade but were not recommended for Geometry at the time of registration.

Question Categories (number of questions on exam):
  A. Solve Multi-Step Equations (3)
  B. Solve Proportions (3)
  C. Pythagorean Theorem (2)
  D. Solve and Graph Inequalities (2)
  E. Solve and Graph Absolute Value Equations and Inequalities (2)
  F. Evaluate Formulas (2)
  G. Write the Equation of a Line (3)
  H. Graph Linear Equations (2)
  I. Graph Non-Linear Equations (3)
  J. Characteristics of Quadratic Equations (4)
  K. Write Equations of Parallel and Perpendicular Lines (4)
  L. Solve Systems of Equations (3)
  M. Graph Systems of Linear Inequalities (2)
  N. Simplify Expressions with Exponents (2)
  O. Simplify Polynomials (4)
  P. Factor Polynomials (4)
  Q. Solve Quadratics by Factoring (4)
  R. Solve Quadratics by Quadratic Formula (2)
  S. Complete the Square (1)
  T. Simplify Rational Expressions (2)
  U. Write Equations to model Real Life Situations (2)
  V. Simplifying Radicals (4)

Total Number of Short Answer Questions - 60

Testing Information

<u>Dates</u>: Tuesday, August 4th, 2020
<u>Where</u>: Oak Ridge High School
<u>Time</u>: 10:00 am – 12:00 pm. Please check in at 9:45 am by the Administration building.
<u>Notes</u>: Scientific calculators will be provided, but please bring a pencil(s) to take the exam.

Please sign up at the following link by <u>July 29th, 2020</u>:

https://forms.gle/pCodnYzXNS7joL2bA

Recommendations to Prepare:
- List of 22 question categories
- Ponderosa Algebra One → http://phsmath.startlogic.com/Spring/Pages/algebrafallorspring.htm
- Algebra Math Men → http://mathmenalg1.weebly.com/
- Khan Academy Algebra One Course

If you have any questions, please contact

Mr. Diaz (Department Chair at Oak Ridge) at **adiaz@eduhsd.k12.ca.us**

Updated – 3/27/2020