

PLAN TEST

PLAINFIELD EAST HIGH SCHOOL

WEDNESDAY 4/28/10

TEST LENGTH: 40 minutes

NUMBER OF QUESTIONS: 40 questions

TOPICS TESTED ON THE PLAN TEST		<u>TIPS & INFORMATION</u>
	<p>1. Pre-Algebra/Algebra</p> <p>a. Pre-Algebra. Items in this content area are based on basic operations using whole numbers, decimals, fractions, and integers; place value; square roots and approximations; the concept of exponents; scientific notation; factors; ratio, proportion, and percent; linear equations in one variable; absolute value and ordering numbers by value; elementary counting techniques and simple probability; data collection, representation, and interpretation; and understanding simple descriptive statistics.</p> <p>b. Elementary Algebra. Items in this content area are based on properties of exponents and square roots; evaluation of algebraic expressions through substitution; simplification of algebraic expressions; addition, subtraction, and multiplication of polynomials; factorization of polynomials; and solving quadratic equations by factoring.</p> <p>2. Geometry</p> <p>a. Coordinate Geometry. Items in this content area are based on graphing and the relations between equations and graphs, including points and lines; graphing inequalities; slope; parallel and perpendicular lines; distance; and midpoints.</p> <p>b. Plane Geometry. Items in this content area are based on the properties and relations of plane figures, including angles and relations among perpendicular and parallel lines; properties of circles, triangles, rectangles, parallelograms, and trapezoids; transformations; and volume.</p>	<p style="text-align: center;">YOU MAY USE A CALCULATOR (SEE POLICY BELOW)</p> <p style="text-align: center;">**WE STRONGLY SUGGEST YOU BRING A CALCULATOR**</p> <p style="text-align: center;">YOU MAY <u>NOT</u> USE A FORMULA SHEET OR A NOTE CARD</p> <p style="text-align: center;">ANSWER <u>ALL</u> QUESTIONS!</p> <p style="text-align: center;">YOU ARE NOT PENALIZED FOR GUESSING</p>

Prohibited Calculators

The following types of calculators are prohibited:

- Calculators with built-in computer algebra systems
Prohibited calculators in this category include:
 - Texas Instruments: All model numbers that begin with **TI-89** or **TI-92** and the **TI-Nspire CAS**—Note: The TI-Nspire (non-CAS) is permitted.
 - Hewlett-Packard: **HP 48GII** and all model numbers that begin with **HP 40G**, **HP 49G**, or **HP 50G**
 - Casio: **Algebra fx 2.0**, **ClassPad 300** and **ClassPad 330**, and all model numbers that begin with **CFX-9970G**