October 2018

Dear **Sir/Madam:**

Greetings from APSA!

We are pleased to let you know that the Japan Global Mathematics Association has given us access to their mathematics certification program. In this connection, we have also opened this opportunity to allow schools to certify their teachers at a certain level of mathematics proficiency. Part of our global vision in APSA is to have teachers in schools have a mathematics certification at a proficiency level that is recognized internationally.

The levels of proficiency range from Level 8, which is the 1st step level and goes up to Level 1, the highest level which is equivalent to doctoral or graduate level in Mathematics proficiency. The test usually takes 2 hours to finish and is made up of 2 parts. Part 1 is the calculation portion and Part 2 is the application portion. Both tests should be taken in one sitting, although a short break is given between the 1st and 2nd portion of the test.

The test is scheduled on **November 10, 2018 to be held at the JSU- AMOSUP Mariners' Home Annex, 1970 Pilar Hidalgo Lim St., Malate, Manila.** We will need the names of the teachers who will take the test and the level they will take. The fee for the Suken test **is Php 400.00** from **level 3 to level 8**, **Php 500.00** from **level Pre-2 to level 2** and **Php 600.00** from **Pre-1 to level 1**.
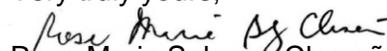
Only those on the list and have paid on or before the deadline will be able to take the test. Their names will be submitted to the head office in Japan and the test booklets will then be prepared and subsequently, the certificates, upon passing the test, will also come from Japan. Please fax or e-mail the scanned copy of your deposit slip to acknowledge payment and registration. You may register at www.apsa-esba.com/register. **Deadline for submission of registration and payment is EXTENDED UNTIL OCTOBER 19, 2018. Please remit your payment to:**

Account Name**:**   **Asian Psychological Services and Assessment Inc.**
Account Number**:**   **7338005215**
BDO Branch: **BDO - Arellano Ave.**

To this end, we hope you will communicate with us at the soonest possible time so that we can send the list to Japan. Should you have any further questions, please feel free to call Nette, Teng, Jen, Hendrick or Meanne at (02) 5257277 or (02) 5257238 or email to apsa.marketing@apsa.ph.

Thank you for sharing with APSA the vision for improving the standards for mathematics achievement in our country.

Very truly yours,

Rose Marie Salazar- Clemeña, Ph.D, RGC, RPsy
President

TEST CONTENT

A	**[Analysis]** Differentiation, integration, basic differential equations, multivariable functions (partial differentiation, multiple integrals), basic, complex analysis **[Algebra]** Linear equations, determinants, linear conversions, linear space, vector space, curves, curved surfaces, linear programming, quadratics forms, eigenvalues, polynomials, algebraic equations, elementary number theory **[Statistical Data]** Probability, probability distribution, regression analysis, correlation coefficients **[Other]** Application of mathematics to the natural sciences, numerical analysis, algorithm basics, etc.
B	Sequences and limits, functions and limits, various functions (fractional/irrational), composite functions, inverse functions, differentiation, integration, matrices and linear transformations, various curves, complex number planes, basic statistics processing, etc.
C	Proofs, fractional expressions, higher-degree equations, various functions (exponential, logarithmic, trigonometric and higher-degree polynomials), points and lines, circle equations, loci, basic differentiation, basic integration, vectors, complex numbers, probability distributions, statistical inference, etc.
D	Sets, quadratic functions/graphs, quadratic inequalities, trigonometric ratios, data analysis, counting, probability, integer properties, numeral systems, geometric properties, arithmetic sequences, geometric sequences, basic statistics, etc.
E	Square root, expansion and factorization, prime factorization, quadratic equations, Pythagorean theorem, circle properties, similarity, ratio of areas, simple quadratic functions, simple statistics, etc.
F	Simple mixed calculations using algebraic notation, simple linear inequalities, system of equations, parallel line properties, congruent triangles, quadrilateral properties, similarity, linear functions, basic probability, etc.
G	Positive and negative numbers, expressions using algebraic notation, linear equations, basic geometric constructions, translations, line reflection, rotation, arcs and area of sectors, surface area and volume of cones, cylinders, and spheres, direct and inverse proportions using negative numbers, approximate values and error, frequency distributions and histograms, mean values and range, etc.
H	Mixed calculations involving addition, subtraction, multiplication and division using fractions, area of circles, volume of cylinders/prisms, speed, enlargement, symmetry, ratios, proportions and inverse proportions, etc.
I	Mixed calculations involving addition, subtraction, multiplication and division using integers and decimals, divisors and multiples, addition and subtraction of fractions, area of triangles and quadrilaterals, sum of interior angles, volume of cubes and rectangular prisms, averages, polygons, congruent figures, circumference, prisms and cylinders, simple proportion, basic graphs, rates and percentages, etc.
J	Mixed calculations involving addition, subtraction, multiplication and division using integers, addition and subtraction using decimals and fractions with common denominator, rounding numbers, area of rectangles/squares, basic solids, angle measurement, parallel/perpendicular lines, parallelograms, rhombuses, trapezoids, diagrams and line graphs, the relationship between two amounts, etc.
K	Addition/subtraction of integers, multiplication of two-digit numbers, division by one-digit numbers, meaning and expression of decimals and fractions, addition/subtraction of decimals and fractions, calculation of length, weight, and time, circles and spheres, isosceles and equilateral triangles, expression of the relationship between quantitative amounts, tables and bar graphs, etc.

KYU	CONTENT				KYU	CONTENT			
1st	90% **A(B•C)**			10%	**4th**	30% **F**	30% **G**	30% **H**	10%
Pre-1st	50% **B**	40% **C**		10%	**5th**	30% **G**	30% **H**	30% **I**	10%
2nd	50% **C**	40% **D**		10%	**6th**	45% **H**		45% **I**	10%
Pre-2nd	50% **D**	40% **E**		10%	**7th**	45% **I**		45% **J**	10%
3rd	30% **E**	30% **F**	30% **G**	10%	**8th**	45% **J**		45% **K**	10%