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Mathematical Olympiads December 13, 2017

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for Elementary et Middle Schools

Directions to Students: After all questions have been read by your PICO, you will have 30 minutes to complete this contest. Fou may not have a pen or percell in your hand while the PICO result the set of questions to the class. Calculators are not permitted. All work is to be used. Answers must be placed in the corresponding boxes in the answer column.

Name: __

2A Reduce the complex fraction to a common fraction in

lowest terms: $\frac{2}{3+\frac{4}{1-\frac{1}{5}}}$. [Hint: Start with $1-\frac{1}{5}$]

2B A palindrome reads the same forwards and backwards. The number 2017102 is a 7-digit palindrome. Let A represent the least palindrome greater than 2017102. Let B represent the greatest palindrome less than 2017102. Find A - B.

2C Thirty-six points are arranged in a unit-square array as shown. Figure ABCDE is composed entirely of straight-line segments with vertices A. B. C. D. and E.



Find the number of degrees in the sum of the interior angles of figure ABCDE. [The interior angle at D is a reflex angle whose measure is greater than 180°.]

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Titu Andreescu, Kathy Cordeiro, Alina Andreescu Math Olympiad Practice Problems Middle School:

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