



Division

**M**

Mathematical Olympiads

December 13, 2017

for Elementary & Middle Schools

Contest

**2**

*Directions to Students: After all questions have been read by your PICO, you will have 30 minutes to complete this contest. You may not have a pen or pencil in your hand while the PICO reads the set of questions to the class. Calculators are not permitted. All work is to be done on the pages provided. No additional scrap paper 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  $180^\circ$ .]

# Math Olympiads Sample Questions

**JG Myers**



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