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# MATHCOUNTS®

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2015

■ Chapter Competition ■

Target Round

Problems 3 & 4

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Name \_\_\_\_\_

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3. \_\_\_\_\_ For some integer  $k$ , the first three terms of an arithmetic sequence are  $k$ ,  $2k + 3$ , and  $4k + 1$ , in that order. What is the integer value of the fourth term of the sequence?

4. \_\_\_\_\_ cm Square ABCD measures 6 cm on each side. If the three interior segments divide the square into two congruent trapezoids and an isosceles triangle, all of equal area, what is the length of segment EF?

