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# MATHCOUNTS®

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2015  
■ Chapter Competition ■  
Target Round  
Problems 5 & 6

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Name \_\_\_\_\_

School \_\_\_\_\_

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Total Correct	Scorer's Initials

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NextThought

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5. \_\_\_\_\_ What is the least positive integer that has only 1s and 0s as digits and is a multiple of 75?

6. \_\_\_\_\_ All points that are equidistant from  $(2, 2)$  and  $(9, 3)$  lie on a line with equation  $ax + by = c$ , where the positive integers  $a$ ,  $b$  and  $c$  have no common factors greater than 1. What is the value of  $a + b + c$ ?