

**MASSACHUSETTS MATHEMATICS LEAGUE**  
**CONTEST 1 - OCTOBER 2016**  
**ROUND 6 ALG 1: EVALUATIONS**

**ANSWERS**

A) \_\_\_\_\_

B) \_\_\_\_\_

C) \_\_\_\_\_

A) Compute the value of  $x$ .  $2 + 3 \cdot 4 - x \div 6 = 7$

B) The rows and columns of the cells on an  $8 \times 8$  grid are each numbered from 1 to 8.  
A cell is colored if the sum of its row number and column number is divisible by 3 or by 5  
(or both). How many such cells are colored?

C) Two sides of a triangle have lengths of 17 and 38. The perimeter is an integer multiple of 4.  
How many lengths are possible for the third side?