## MASSACHUSETTS MATHEMATICS LEAGUE CONTEST 1 - OCTOBER 2006 ROUND 6 ALG 1: EVALUATIONS

## **ANSWERS**

A)	
B)	%
<b>C</b> )	

- A) Consider the following binary operation: a + b = 2a(3 b). Determine the positive difference between (0.5) + 4 and 4 + (0.5).
- B) What is percent error (to the nearest 0.1%) when  $0.\overline{42}$  is approximated as  $\frac{2}{5}$ ?
- C) *H* denotes Jack's house and *P* the local playground. If Jack walks only east or south, how many different routes can he take from his house to the playground?

  Note: SSSEEEE represents one such route traveling along the left side and then the bottom side of the rectangle.

