## MASSACHUSETTS MATHEMATICS LEAGUE CONTEST 6 - MARCH 2009 ROUND 4 ALG 1: ANYTHING

## **ANSWERS**

A)	
B)	
C	

- A) If \(^1\)4 of 20 were 6, then what would 1/5 of 10 be, assuming the incorrect answers are <a href="proportional">proportional</a> to the correct answers?
- B) A 57 gallon acid-water solution contains 19 gallons of pure acid. Using this solution, a mixture of 20% acid was to have been produced by adding k gallons of water. However, k gallons of pure acid were added by mistake, producing a p% acid solution. Compute p.

C) Solve for x:  $1 - \frac{1}{1 - \frac{3}{2 + \frac{1}{x}}} = 2x$