

MASSACHUSETTS MATHEMATICS LEAGUE
OCTOBER 2004
ROUND 3 ALG 1: LINEAR EQUATIONS

ANSWERS

A) _____

B) _____

C) _____ ft/sec

- A) The average of three numbers is 20. The second number is four more than the first and the third is the sum of the first two. Find the square of the largest number.

B) Solve $\frac{45x + 43}{100} + \frac{x}{5} = 1 - \frac{5x + 6}{50}$

- C) Traveling from A to B with a headwind Shawn averaged 380 ft/sec; on the return from B to A with a tailwind Shawn averaged 420 ft/sec. Find Shawn's average speed for the entire trip.