

**MASSACHUSETTS MATHEMATICS LEAGUE
CONTEST 5 - FEBRUARY 2012
ROUND 4 ALG 1: WORD PROBLEMS**

ANSWERS

A) _____ mph

B) _____

C) _____

***** NO CALCULATORS ON THIS ROUND *****

A) A train traveled 300 miles in t hours. When the speed of the train was increased by 5 mph, it covered 20 more miles in the same amount of time. Find the faster rate of the train.

B) There are three types of coins in the fountain, pennies, dimes and quarters worth \$6.66. If there are 156 pennies, what is the maximum number of coins in the fountain?

C) A men can complete a job in B days. If C men are taken from the original crew, how many more days will be needed to complete the original job? Give your answer as a simplified expression in terms of A , B and C .