MASSACHUSETTS MATHEMATICS LEAGUE CONTEST 3 - DECEMBER 2009 ROUND 2 ARITHMETIC/NUMBER THEORY

***** NO CALCULATORS IN THIS ROUND *****

	ANSWERS	
	A)	%
	B)	
	C) (,	_)
A)	A is multiplied by 4, divided by 5 and then multiplied by 6. What is the percent increase in the value of A after these three operations?	
B)	Find the <u>sum</u> of all positive integer divisors of 2009.	
C)	Find the ordered pair (x, y) so that $9x43y5$ is the smallest number divisible by 33.	