MASSACHUSETTS MATHEMATICS LEAGUE CONTEST 3 - DECEMBER 2014 ROUND 2 ARITHMETIC/NUMBER THEORY

ANSWERS

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	A)
	B)
	C)
A)	Compute the remainder when 6^{153} is divided by 7.
B)	Find the <u>smallest</u> of four consecutive positive integers such that the first (smallest) is divisible by 5, the second by 4, the third by 3, and the fourth by 2.
C)	What is the <u>second smallest</u> positive integer with exactly 15 positive factors?
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