

AMC 8 Day 6 Chinese Remainder Theorem

1 (1分) The remainder of a three-digit number is 1 when it is divided by 3 or 4 or 5. What is the least value of such a number? _____ .

2 (1分) The remainder of a three-digit number is always 2 when it is divided by 3, 5, or 7. What is the sum of digit of the largest value of such a number? _____ .

A. 20 B. 18 C. 16 D. 14 E. 12

3 (1分) The remainder is 2 when a number is divided by 3, is 3 when it is divided by 4, is 4 when it is divided by 5. The smallest value of such a number is _____ , the largest value of such a three-digit number is _____ .

4 (1分) The remainder of a number is 2 when it is divided by 3 and is 3 when divided by 7. What is the smallest value of such a number?

A. 32 B. 96 C. 17 D. 58 E. 59

5 (1分) The remainder of a natural number is 4 when it is divided by 5, is 4 when divided by 6, and is 7 when divided by 9. What is the sum of digit of the smallest value of such a number? _____ .

A. 3 B. 4 C. 5 D. 6 E. 7