2008 Q11

11. Each of the 39 students in the eighth grade at Lincoln Middle School has one dog or one cat or both a dog and a cat. Twenty students have a dog and 26 students have a cat. How many students have both a dog and a cat?
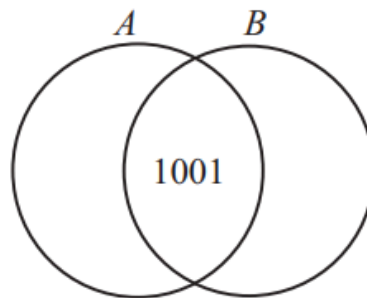
(A) 7   (B) 13   (C) 19   (D) 39   (E) 46

2007 Q13

13. Sets A and B, shown in the Venn diagram, have the same number of elements. Their union has 2007 elements and their intersection has 1001 elements. Find the number of elements in A.

(A) 503   (B) 1006   (C) 1504   (D) 1507   (E) 1510

1998 Q14

14. At Annville Junior High School, 30% of the students in the Math Club are in the Science Club, and 80% of the students in the Science Club are in the Math Club. There are 15 students in the Science Club. How many students are in the Math Club?

(A) 12   (B) 15   (C) 30   (D) 36   (E) 40

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2015 Q15

15. At Euler Middle School, 198 students voted on two issues in a school referendum with the following results: 149 voted in favor of the first issue and 119 voted in favor of the second issue. If there were exactly 29 students who voted against both issues, how many students voted in favor of both issues?

(A) 49   (B) 70   (C) 79   (D) 99   (E) 149

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