2011 Q6

6. In a town of 351 adults, every adult owns a car, a motorcycle, or both. If 331 adults own cars, and 45 adults own motorcycles, how many of the car owners do not own a motorcycle?

(A) 20 **(B)** 25 **(C)** 45 **(D)** 306 **(E)** 351

6. **Answer (D):** In a population of 351 people, 45 people own a motorcycle. Therefore there are $351 - 45 = 306$ car owners who do not own a motorcycle.

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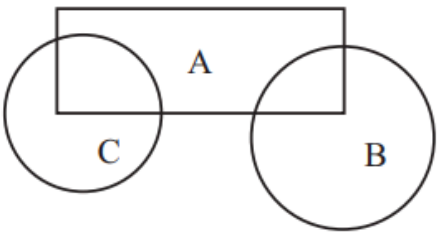
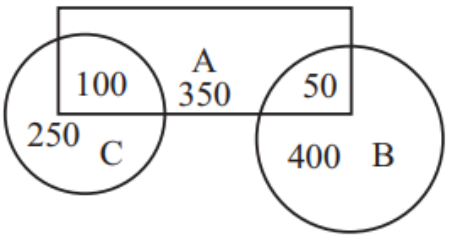
1999 Q9

9. Three flower beds overlap as shown. Bed A has 500 plants, bed B has 450 plants, and bed C has 350 plants. Beds A and B share 50 plants, while beds A and C share 100. The total number of plants is



(A) 850 **(B)** 1000 **(C)** 1150 **(D)** 1300 **(E)** 1450

9. **Answer (C):** Bed A has 350 plants it doesn't share with B or C. Bed B has 400 plants it doesn't share with A or C. And C has 250 it doesn't share with A or B. The total is $350 + 400 + 250 + 50 + 100 = 1150$ plants.



OR

Plants shared by two beds have been counted twice, so the total is $500 + 450 + 350 - 50 - 100 = 1150$.