

Probability and Combinatorics

Question

There are 225 students in the junior class at Plainedge High School. There are 125 students in chorus and 110 who play an instrument. Let x denote the number of students who neither participate in chorus nor play an instrument. Which of the following represents the number of students who participate in chorus and also play an instrument?

- a $x + 10$
- b $x - 10$
- c $225 - x$
- d $10 - x$
- e None of the above.

Answer: a. $x + 10$ May allow calculator for ease of computation. Construction of a Venn diagram is suggested.