

Set Word Problems

- 1) Helen Hayes Youth Theatre offers ballet, jazz, and salsa classes. There are 67 students in ballet, 45 in jazz, and 54 in salsa. If 32 students are in jazz and salsa, 24 in ballet and salsa, 18 in ballet and jazz, and 11 in all three, what is the total number of students?

PREVIEW

- 2) Jason surveys his neighborhood and finds that 99 people watch football, 94 watch basketball, and 78 watch tennis. There are 45 people who watch basketball and tennis, 26 who watch tennis and football, 9 who watch basketball and football, and 5 who watch all three. How many neighbors watch only one sport?

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- 3) At a Chinese restaurant, people order dumplings, spring rolls, and fried rice. If 100 people order dumplings and spring rolls, 87 ate dumplings and fried rice, and 56 ate all three, how many people ate at least two dishes?

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- 4) Among the performers in an acting troupe, 20 can dance, 28 can sing, and 84 can act, and 15 have only two skills.

- 5) In Joey's art club, 42 join the chess club. There are 12 students in drama and chess, 8 in chess and art, and none in all three. How many students are in the class?

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