

Name \_\_\_\_\_



## Venn Diagram Word Problems

1. In a town named Rivertown, there are two main clubs: the Book Club and the Sports Club. Out of 120 residents, 60 are members of the Book Club, 70 are members of the Sports Club, and 30 are members of both clubs. How many residents are not members of either club?
2. At a local fair, there are three main attractions: the Ferris wheel, the Roller Coaster, and the Haunted House. Out of 150 visitors, 80 went on the Ferris wheel, 90 went on the Roller Coaster, and 50 went to the Haunted House. If 30 visitors enjoyed all three attractions, how many visitors didn't go on any of the attractions?
3. In a school, students participate in three extracurricular activities: Music Club, Drama Club, and Art Club. Out of 200 students, 80 are in the Music Club, 90 are in the Drama Club, and 60 are in the Art Club. If 20 students are involved in all three clubs, how many students are not involved in any club?
4. At a restaurant, customers can choose from three types of meals: Vegetarian, Non-vegetarian, and Vegan. Out of 180 customers, 70 ordered Vegetarian meals, 80 ordered Non-vegetarian meals, and 60 ordered Vegan meals. If 30 customers ordered all three types of meals, how many customers didn't order any type of meal?
5. In a survey about favorite sports, respondents could choose from three options: Soccer, Basketball, and Tennis. Out of 250 respondents, 100 chose Soccer, 120 chose Basketball, and 80 chose Tennis. If 40 respondents selected all three sports, how many respondents didn't choose any of the sports?
6. At a movie theater, films are categorized into three genres: Action, Comedy, and Drama. Out of 300 moviegoers, 120 watched Action movies, 140 watched Comedy movies, and 100 watched Drama movies. If 50 moviegoers watched all three genres, how many moviegoers didn't watch any of the genres?
7. In a survey about favorite ice cream flavors, participants could choose from three options: Chocolate, Vanilla, and Strawberry. Out of 180 participants, 70 chose Chocolate, 80 chose Vanilla, and 60 chose Strawberry. If 30 participants chose all three flavors, how many participants didn't choose any of the flavors?
8. At a music festival, attendees could enjoy performances in three areas: Main Stage, Acoustic Stage, and DJ Stage. Out of 200 attendees, 80 visited the Main Stage, 90 visited the Acoustic Stage, and 70 visited the DJ Stage. If 40 attendees visited all three stages, how many attendees didn't visit any stage?
9. In a school cafeteria, students could choose from three types of beverages: Water, Juice, and Soda. Out of 150 students, 60 chose Water, 70 chose Juice, and 50 chose Soda. If 20 students chose all three beverages, how many students didn't choose any of the beverages?
10. In a wildlife sanctuary, visitors can spot three types of animals: Lions, Elephants, and Giraffes. Out of 180 visitors, 70 spotted Lions, 80 spotted Elephants, and 60 spotted Giraffes. If 30 visitors spotted all three types of animals, how many visitors didn't spot any of the animals?