

Name \_\_\_\_\_

Date \_\_\_\_\_

### Using Venn Diagrams Problems - Step-by-Step Lesson

In an office of 40 employees, 17 travel by car, 23 travel by bike, and 10 take both cars and bikes.

How many employees in the office are not enrolled in either Car or Bike?

x employees are not using either cars or bikes to travel.



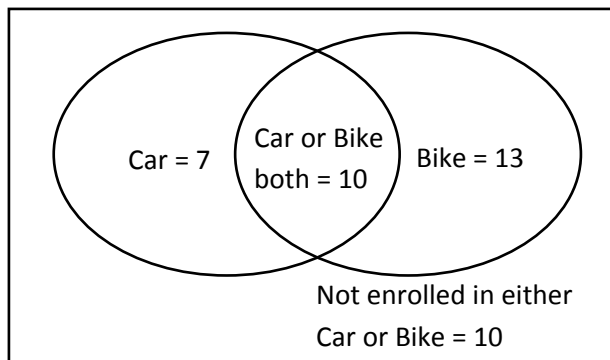
#### Explanation:

We want to find out how many employees come car, bike, and both.

$$\text{Car} = 17 - 10 = 7$$

$$\text{Bike} = 23 - 10 = 13$$

$$\text{Car or bike both} = 10$$



Step 3) There are a total of 40 employees.

$$7 + 10 + 13 + x = 40$$

Step 4) Solve for x to find the

$$30 + x = 40$$

$$= 10$$

Step 5) 10 employees are not using cars or bikes.

