

Name _____

Date _____

Using Venn Diagrams Problems - Independent Practice Worksheet 2

Complete all the problems. Make sure to draw Venn diagrams to help you solve the problems.

1. There were 60 students in a class. 25 students attend Woodshop class and 20 students attended Word Processing class. If 7 students were in both the classes, how many students were not enrolled in both Woodshop and Word Processing class?

2. A group of 20 friends were going on a picnic. 7 friends were playing basketball and 5 friends were having snacks. If 2 friends were doing both, how many friends were playing basketball?



3. There were 50 people in a shoe store. 18 people were about to buy Nike shoes and 15 people were about to buy Reebok shoes? If 3 people were about to buy both brands of the shoes, how many people were in the store, but not buying shoes?

4. There are 400 students in an institute. 20% of students are majoring in engineering and 35% of students are majoring in design. 10% of students are majoring in both fields. How many students are majoring in both fields?

5. 10 students are taking Mark's class. 7 students are taking Jackson's class. If 2 students are taking both classes, how many total students are there in total between the two classes?

6. Out of 18 people in the Glee club, 11 have dogs and 7 have cats. Four people have both cats and dogs. How many club members have only cats?



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7. There are 18 bikes in a parking lot. 7 bikes are gas powered and 5 bikes are electric powered. 2 bikes are powered by both gas and electric. How many bikes in the parking lot are not powered by anything?



8. A case of chocolate contains 15 chocolate bars. The chocolates come in three varieties milk, dark, and milk/dark mix. 6 milk chocolates and 3 dark chocolates become expired. How many of milk chocolates are expired if there are 6 milk chocolates that are not expired?

9. A nutritionist at a school is planning a schedule of breakfasts for 175 students. 73 students say they want milk, 97 want juice, and 60 want fruit. 19 say they want both milk and fruit; of these 11 want juice as well. 34 want only milk and 36 want only fruit.

How many students want juice only?

10. 80 students are surveyed to determine which of 3 different classes they would like to take next semester. 23 want to take only Art and 18 want to take only Business. 8 students want to take both Art and Business. 31 want to take Science. 9 students want to take both Art and Science. 2 students want to take both Business and Science. 6 students want to take all the classes.

How many students want to take Science only?

