| Name: | |
|---------------|--|
| Teacher: | |
| Class/ Block: | |
| Date: | |

Venn Diagrams

Please answer each question. Cleary identify your final answer!!

| No work or explanation = No Credit | | |
|---|--|--|
| 27 people were surveyed about their choice of running shoes. The survey finds that 13 people have New Balance, 8 have Asics, and 6 have Brooks. Five have New Balance and Asics, 3 have New Balance and Brooks, and one has an Asics and a Brooks. If no one has all three kinds of shoes, find the following: Find P (New Balance Asics). Find P(Asics or Brooks). | | |
| A survey was conducted using 59 junior students at South Cobb pertaining to the type of computer they owned. 35 students owned a desktop whereas 26 students owned a laptop. 17 students owned both. Find the following: P(Own both computers). Find P(desktop don't own a laptop). Find P(own desktop or laptop). | | |
| A pizza place surveyed 100 customers to determine their favorite pizza topping or combination of toppings. 33 customers liked mushrooms, 39 liked sausage, and 52 liked pepperoni. 5 customers liked all three toppings, 7 customers liked pepperoni and mushrooms, 4 liked pepperoni and sausage, and 3 liked sausage and mushrooms. Find the following: Find P(pepperoni and mushrooms). Find P(sausage pepperoni) Find P(mushrooms only). | | |
| 4. There are 150 students in the 9th grade. 80 are taking Math, 50 are taking English, and 10 are taking both subjects. All students are taking one or the other. Find the following: A. P(students in Math and English) B. P(Math English). C. P(English Math) D. P(Math not taking English) E. P (Math) | | |

| Name: Teacher: | | | |
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| In a class there are: 10 students who play soccer and basketball, 7 students do not play soccer or basketball, 13 students play soccer, 19 students play basketball. Draw a Venn diagram to depict this scenario. A. Find P(basketball soccer). B. Find P(soccer). C. Find P(basketball soccer). | | | |
| A pencil pocket has 20 pens that are red or blue. 8 pens are blue and 6 pens are red and the remaining pens do not work at all. How many pens do not work? A. Find P(red). B. Find P(not working). | | | |
| 7. In a camp there are a total of 40 students. 32 students play only tennis and 5 students play only hockey. How many student play both hockey and tennis? A. Find P(hockey tennis) B. Find P(tennis) | | | |
| 8. 32 students took part in a survey. Students were asked if they had a cat or dog as a pet at home. 10 students said they had only ever had a dog. 8 students said they had only ever had a cat. 8 students said they had both. 6 students said they had never had a dog or a cat. Draw a Venn diagram to display this. A. Find P(dog cat) B. Find P(cat) | | | |
| 26 people were surveyed about their choice of cell phones. The survey finds that 14 people have Apple iPhones, 10 have Samsungs, and 5 have Nokias. Four have Apple iPhones and Samsungs, 3 have Apple iPhones and Nokias, and one has a Samsung and a Nokia. If no one has all three kinds of phone, how many people have none of these cell phones? D. Find P(Apple Samsung). E. Find P(Samsung No Apple). | | | |