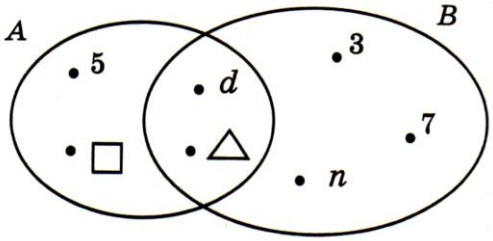
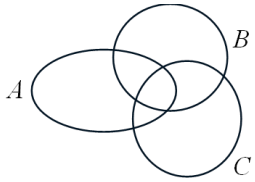
Math 4b. Homework 25.

1. Using the Venn diagram, determine which elements make up sets A and B. Write these sets using curly braces, and find their intersection (∩) and union (∪).



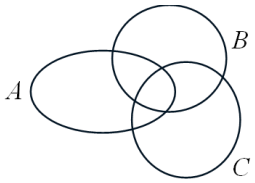


2. Shade the corresponding set

$a.\ A \cap B;$ $b.\ B \cap C;$ $c.\ A \cap C;$

$d.\ A \cap B \cap C;$ $e.\ A \cup C;$ $f.\ A \cup B \cup C;$

3. On the diagrams of sets A, B, and C put 3 elements so that:



   a. each set contains 3 elements
   b. each set contains 2 elements
   c. each set contains 1 element ;
   d. set A contains 1 element, sets B contains 2 elements, set C contains 3 elements;
   e. set A contains 1 element, sets B contains 3 elements, set C contains 3 elements;
   f. set A contains 0 elements, sets B contains 2 elements, set C contains 3 elements;

4. Students who participated in math coopetition had to solve 2 problems, one in algebra and another in geometry. Among 100 students 65 solved algebra problem, 45 solved geometry problem, 20 students solved both problems. How many students didn't solve any problem at all?

5. Change * with the digits in the number 1*25* so, that the number is divisible y 15. Find all possible solutions.

6. Yesterday, the number of students present in the class was 8 times the number of those absent. Today, 2 more students did not come, and it turned out that the number of absent students is 20% of the number of students present in the class. How many students are there in total in the class?