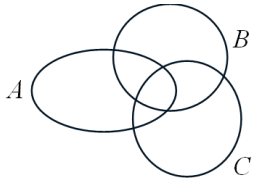
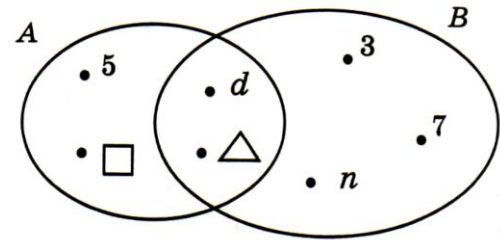


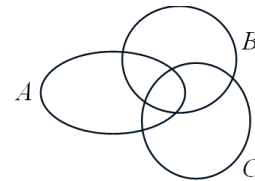
1. Using the Venn diagram, determine which elements make up sets A and B. Write these sets using curly braces, and find their intersection (\cap) and union (\cup).



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:
- each set contains 3 elements
 - each set contains 2 elements
 - each set contains 1 element ;
 - set A contains 1 element, sets B contains 2 elements, set C contains 3 elements;
 - set A contains 1 element, sets B contains 3 elements, set C contains 3 elements;
 - set A contains 0 elements, sets B contains 2 elements, set C contains 3 elements;



4. A survey in 7th grade showed that 20% of the students who like math also like physics, and 25% of the students who like physics also like math. Only John and Michael aren't interested in either subject. How many students are in the class, if there are more than 20 but fewer than 30?
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?