

## Invitation to Arithmetic

Age group: Grade5-6  
Arithmetic for Fun

19-10-2017

1. Please attempt to work out solutions with all important details. You can attempt the problems in any order that your prefer.
  2. Draw diagrams whenever possible. Convey all you ideas that you think will solve the problem.
  3. Discuss your ideas with your friends after the class.
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### 1 Problems

1. **Mushrooms:** Vasya found 36 fungi more than Lena. On the way home, Lena began to ask Vasya: "Give me a few mushrooms, so I have as many mushrooms as you have! "  
*How many mushrooms should Vasya give to Lena?*
2. **Geese and piglets:** Geese and piglets are walking in the cattle yard. Petya counted the number of heads, there were 30 of them, then he counted, how many feet, there were 84 of them. *How many geese and how many piglets were in the cattle farm?*
3. **Boys and Donkeys:** Donkeys grazed on the meadows. Some boys approached the Donkeys. "We'll sit on donkeys one at a time," suggested the oldest. Two boys did not have enough donkeys. "Let's try to sit in two boys on each donkey," the elder suggested again. Then one donkey was left without a rider. *How many donkeys and how many boys were on the meadow?*
4. **How old is Vanya?** When Vanya was asked, how old is he, he thought and said: "I'm three times younger than my dad, but three times older than my younger brother Sergei." Then in ran the small Sergei and said that his father is older than him by 40 years. *How old is Vanya?*
5. **Stacks of notebooks:** If from one stack of notebooks, 10 notebooks are transferred to another stack, then the notebooks in the two stacks will be equal. *How many more notebooks are there in the first stack when compared to the second stack?*
6. **Chocolates:** When Tanya tries to buy 8 chocolates she falls short by rupees 20. If she buys 5 chocolates, then she will be left with rupees 100. *How much money does Tanya have?*
7. **Father and son ages:** Some years ago, the father was 27 years old and the son was 3 years old. Today the father is 3 times as old as his son. *What are their ages today?*
8. **Chairs and stools:** The room has chairs and stools. Each stool has 3 legs, each chair has 4 legs. When people sit on all chairs and stools, then in the room there are 39 "legs". *How many chairs and how many stools are there in the room?*
9. **Addition Error of Kolya:** An error occurred during addition by Kolya. Kolya put an extra zero at the end of one of the numbers while adding them and obtained a total of 6641 instead of 2411. *What are the two correct numbers?*
10. **Making a Table:** The teacher asked a difficult task in the class. As a result, the number of boys who solved this problem turned out to be equal to the number of girls who did not solve the problem. *Who in the class is more? the number of students who solved the problem or the number of girls?*