

Brain Power

Number guesser



Choose two numbers from 1 to 9 without telling me. Then answer my questions and I will know the two numbers that you have chosen.

I'm ready.



You can't possibly get 1 and 6 from me, right?



Step 1. Multiply your first number by 2. Don't tell me yet.

$$\boxed{1} \times 2 = \boxed{2}$$

Step 2. Add 45 to the result in step 1.

$$\boxed{2} + 45 = \boxed{47}$$

Step 3. Multiply the result in step 2 by 5.

$$\boxed{47} \times 5 = \boxed{235}$$

Step 4. Add your second number to the result in step 3.

$$\boxed{235} + \boxed{6} = \boxed{241}$$



Tell me what you've got?



It's 241.

$$241 - 225 = 16$$



Ah ha! You picked 1 and 6, right?

Solving hint

Remember the following steps and play this game with your family and friends!

- Step 1. Ask your peer to think two 1 digit numbers.
- Step 2. Ask him/her to multiply the first number by 2.
- Step 3. Ask him/her to add 45 to the result in step 2.
- Step 4. Ask him/her to multiply the result in step 3 by 5.
- Step 5. Ask him/her to add the second number to the result in step 4.
- Step 6. Ask him/her to tell you the result in step 5.
- Step 7. Subtract the result by 225.



The tens place and the units place of the answer are the first and the second numbers respectively.