Work in pairs for this exercise.

- 1. Student A thinks of a number and writes it down on a piece of paper.
- 2. Student B says "Divide that number by ... (a number chosen by the student)".
- 3. Student A performs the calculation, with a calculator if necessary.
- 4. .Student B then says "Multiply the answer that you got by (the same number)".
- 5. Student A performs the calculation.
- 6. Student B says "what answer did you get?"
- 7. Student A tells student B.
- 8. Student B then tells Student A what number was written on the piece of paper.

Student A and B then reverse their roles. The number that the students divide and multiply by can be changed.

The pair then should make a general conclusion about what happens if you first divide something by a given number and then multiply the result by the same given number.

Does this work for every possible given number?



