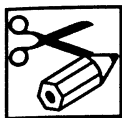


Number Tricks

Leader



Understand how to work with numbers when the value is unknown.



You will need:

- "Number Tricks" student practice sheet
- Pencil



Do this:

- Tell the student to think of a number but to keep it a secret from you.
- The student will perform the operations without being observed.
- After the student performs step six, give the answer five as the solution.
- Let the student work with the next set of numbers.

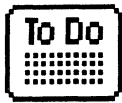
- Directions for the trick:

	Example
1. Think of a number	3
2. Add 7	10
3. Multiply by 2	20
4. Subtract 4	16
5. Divide by 2	8
6. Subtract the number that you thought of (<i>the answer is always 5</i>)	5



Jacob, H. R. *Elementary Algebra*. San Francisco: W.H. Freeman, 1979.

Student _____



Do this:

This trick makes it seem that you can read a person's mind.

- Directions for the trick

Write your results

- | | |
|---|----------|
| 1. Think of a number | 1. _____ |
| 2. Add 7 | 2. _____ |
| 3. Multiply by 2 | 3. _____ |
| 4. Subtract 4 | 4. _____ |
| 5. Divide by 2 | 5. _____ |
| 6. Subtract the number
that you thought of
(<i>your answer should be 5</i>) | 6. _____ |

- Try it again with another number. Follow the same directions.
- Try this number trick with each number from one to four.
- Complete the table:

1. Think of a number	1. <u> 1 </u> <u> 2 </u> <u> 3 </u> <u> 4 </u>
2. Multiply by 2	2. <u> 2 </u> <u> 4 </u> _____
3. Add 6	3. <u> 8 </u> _____
4. Divide by 2	4. <u> 4 </u> _____
5. Subtract the number that you thought of	5. <u> 3 </u> _____



Can you explain how the trick works?



WHAT I FOUND