

Magic or Math?

Mind-Reading Trick:

Su, Francis E., et al. "Mind-Reading Number Trick." *Math Fun Facts*. <http://www.math.hmc.edu/funfacts>

1. Square it.
2. Add the result to your original number.
3. Divide by your original number.
4. Add 17.
5. Subtract your original number.
6. Divide by 6.

The number you are thinking of now is 3!

Birthday Trick:

<http://elvis.rowan.edu/~kilroy/other/math/MathTricks.pdf> [Lots of other tricks here]

1. Write down your birthday month (or enter it on a calculator).
2. Multiply by 5.
3. Add 7.
4. Multiply by 4.
5. Add 13.
6. Multiply by 5.
7. Add the day of your birthday.
8. Subtract 205.

You should now have the month and day of your birthday

Amazing Card Trick:

Swanson, C. *The College Mathematics Journal*, Vol. 36, No. 3 (May, 2005), pp. 209-212

1. Shuffle the deck many times.
2. Deal 9 cards face down.
3. Spectator chooses one card and looks at it. Stack the 9 cards face down with the chosen card on top.
4. Magician places the rest of the stack on top of these 9 cards. Give deck back to spectator.
5. Spectator deals the cards out face up in a pile, counting backwards out loud from 10.
 - If the number on the card matches the number said, stop the pile and start a new pile (counting down from 10).
 - If you reach the end of a pile without a match, place the next card face down on the pile and start a new pile (counting down from 10).
 - Repeat the process until you have a total of 4 piles.
6. Add all of the numbers showing on the top of each pile.
7. Tell the spectator to deal out the number of cards given by the sum in step 6.

That card will be the card the spectator chose at the beginning.