

Sums. The're Math Magic

4 - Sum Card Tricks 2

Please go through each slide stopping until you have understood the concept described

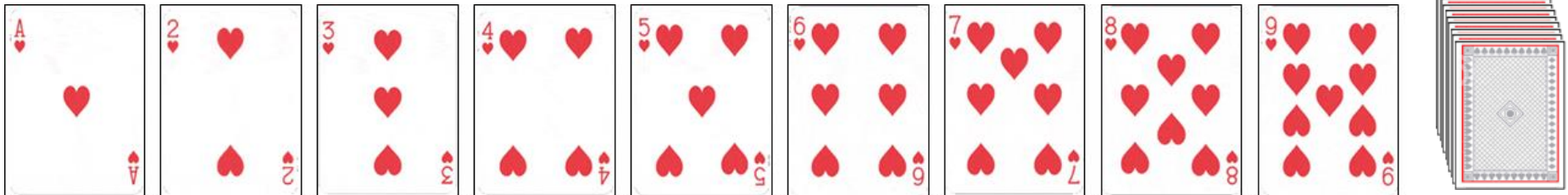
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Its always the same big number

First write down 453129768 on a piece of paper

Choose the hearts 1 to 9 and arrange as shown and turn upside down – nine on top



Explain that you will ask them to sort the cards as follows.

For instance, you can either put down a card or swap two cards and then put them on top.

Demonstrate this exactly as shown on the next slide.

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Demonstrate this as follows. Say “Here is an example”. Do not deviate from these instructions.

Put down the 9 face up. Now swap the 8 and 7 and put them on top.

Put down the 6. Swap the 5 and 4 and put them down.

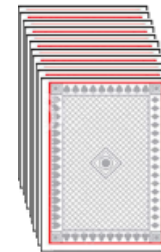
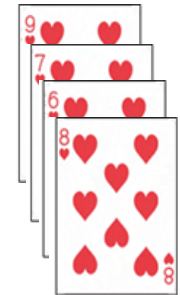
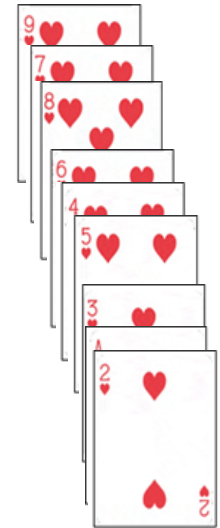
Put the 3 down and then swap the 2 and ace.

Say “I’ll do another example”

Put down the 9 face down, put down the 7, then swap the next two cards and put on top.

Say “You get the idea?”

Put the four cards under the pack.



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Now tell your friend to choose either down or swap and do what they say **but keep the cards face down**.

Say “Please do it again”.

Say “Do you want to do that once more?” If yes then do it again.

Now look at the bottom card. If it is 8 then turn the cards so the 8 is face down. Otherwise leave them.

Take the top card and put it down face up, then the second and continue until the last card. Ask the friend to look at the number.

Show him the paper on which you wrote 453129768. The same as on the table

Why does this work?

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The answer.

At the point where you put the three cards under the pack you have sorted them into the order 4,5,3,1,2,9,7,6,8.

After this point simple logic means you do not change the order of the cards.

When you put a card face down on top of the pile you do not change the order.

Also when you swap the cards before you put them down you also do not change their order.

Try it and amaze your friends.

Teacher to Johnny.

"If you had a pound and asked your father for 2 pounds fifty pence how much money would you have?"

Johnny said "One pound"

Teacher "That's Wrong it should be three pounds fifty pence."

Johnny said "No, just one pound, because you do not know my father!"



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Please go to the next lesson.

Sum More Counting