

Another Card Trick

(This trick was shown to me by my sister-in-law, Margaret Castellano, a 1st grade teacher in Mays Landing, NJ.)

The Trick requires: a 52 card deck of cards.

To work the trick: Shuffle the deck, and turn the deck so the cards are facing down. Then

1. Turn over the top card; as you turn over the card, say the name of the card; then deal cards from the top of the deck on top of that card, as you count from the first card up to 'king': for example, if the first card was a ten, then when you turn over the 2nd card say 'jack', then say 'queen' when you turn over the next card, and finally 'king' as you turn over the fourth card. (The numbers you say probably won't match the cards you turn over.) Turn this pile of cards over, and set them aside.
2. Repeat the process of turning over a card, and counting out cards, to get a second pile, a third pile, and so forth, until finally you run out of cards before finishing a pile. Put the incomplete pile in a 'pool', separate from the piles.
3. Ask a volunteer from the audience to choose three of the piles. Put the other piles in the 'pool'.
4. Have your volunteer turn over the top cards on two of the remaining piles. Add the values of the two cards PLUS 10. (Count jack=11, queen=12, and king=13.)
5. Then deal out that many cards from the 'pool', and count how many cards remain in the pool.
6. Turn over the top card on the remaining pile. *The number on the card should be the same as the number of cards remaining in the pool.*

Math Problem: why?