

# Independence versus mutual exclusivity

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A single card is drawn one at a time from an ordinary deck of cards. Give examples of events "A" and "B" associated with this experiment that are: (answer can not involve two or more different draws) For example, "A" might be that the card drawn is red.

I understand mutual exclusive is neither events can possibly occur and independent means an events doesn't rely on another event to happen. I'm going round and round with this problem, can someone please help?

Give examples for each:

- a. Mutually exclusive but not independent
- b. independent but not mutually exclusive
- c. Independent and mutually exclusive
- d. Neither independent nor mutually exclusive