

1. Define the following:

- Sample space
- Combination
- Mutually Exclusive
- Event

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b. You have a standard deck of cards. What is the probability that you draw a heart, don't put it back and then draw another heart?

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4. a. There are 30 students in the hallway. How many ways could you line these students up?

b. How many ways could you line these students up, if Sally and Ben have to be next to each other?

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