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## Identifying independent events given descriptions of experiments

Independent events are two events that do not affect the probability of each other. If I replace the time back in, I am not changing the probability. (Independent) If I remove the item, I have changed the probability. (Dependent) If the 1st event HAS to happen in order for the 2nd event to happen then the 2nd

dependent upon the 1st. (Dependent)

Identifying independent events given descriptions of experiments

For each experiment, determine whether events A and B are independent or dependent.

Experiment	Events	Independent	Dependent
A litter of puppies consists of black puppies and white puppies. A puppy is randomly selected and removed from the litter. Then another random selection is made from the remaining puppies.	Event A: The first selection is a black puppy.	0	•
	Event B: The second selection is a white puppy.		
A family has two children.  1st child has to have brown eyes for both to have them face event dependent on 1st	Event A: The older child has brown eyes.	0	•
	Event B: Both children have brown eyes.		
A hat contains slips of paper with the names of boys and girls in a class. A name is randomly selected and returned to the hat. Then another random selection is made.	Event A: The first selection is a boy.	•	0
	Event B: The second selection is a girl.		
A box contains pens. Some pens have ink and some do not. A teacher randomly selects a pen and sets it aside. Then another random selection is made from the remaining pens.	Event A: The first selection is a pen with ink.	0	•
	Event B: The second selection is a pen with no ink.		
At the beginning of each of two football games, a coin is tossed, and the winner of the coin toss is determined.	Event A: In the first game, the home team wins the coin toss.	•	0
	Event B: In the second game, the visiting team wins the		

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