Chapter 10 Section 2

MA1020 Quantitative Literacy

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While still half asleep, you randomly select a black sock from your drawer. After you remove that sock, the drawer contains two white socks and four more black socks. Without replacement you continue to randomly select one sock at a time from your drawer until another black sock is selected. What is the probability that exactly one draw is needed to get to another black sock?

- exactly two draws?
- exactly three draws?

$www.nbc.com/Deal_or_No_Deal/game/flash.shtml$



- Tree diagrams
- Counting Principle
- Additive property of probability tree diagrams
- Multiplicative property of probability tree diagrams