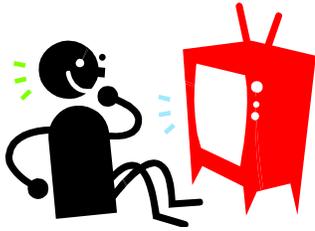


## PROBLEM SET 1:

- 1) Every time Charlie gets a perfect score on a test, his mom lets him watch an extra half hour of television. Today, Charlie got to watch an extra half hour of



television. Is it necessarily true that Charlie got a perfect score on his test?

- 2) You open a dresser drawer to find that it contains 7 green socks and 10 blue socks. What is the least number of socks that you should take from the drawer to be sure that:
- You have a pair of socks of the same color
  - You have a pair of blue socks



- 3) Sir Lancelot's horse always gets scared when a dragon is nearby. Sir Lancelot's horse just got scared, and so Sir Lancelot turned and ran in the other direction shouting "There's a dragon behind me!" Is Sir Lancelot's prediction necessarily correct?

