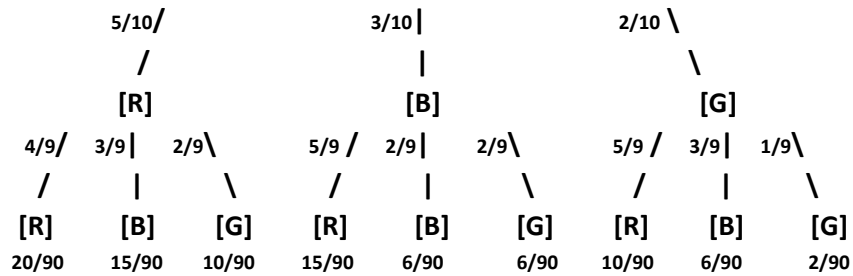


7. Assume a box has 5 red balls, 3 blue balls and 2 green balls. Two balls are drawn out without replacement.
 a. Construct a tree diagram of all possibilities (there will be 9 total)



- b. Find the following probabilities:
 i. No red balls.

$$(6+6+2)/90 = 20/90 = 2/9 = .22222$$

- ii. One blue ball and one green ball.

$$(6+6)/90 = 12/90 = 2/15 = .13333$$

- iii. Two balls of the same color.

$$(20+6+2)/90 = 28/90 = 14/45 = .31111$$