

Draw 3 tickets without replacement from the following box.

$[R R R W W W W B B B B B]$

Let $X = \# \text{ red tickets}$, $Y = \# \text{ white tickets}$

a) Construct the joint probability frequency table for the random variables X and Y .

b) Find the frequency functions for X and Y .

c) Find $P(Y > X)$

d) Find the frequency function for $Y \mid X = 1$

e) Find the frequency function for $X \mid Y = 0$