

Probability and Frequentist Concepts

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```
#Q1 0.421875
dbinom(3, size = 4, p = 0.75)

## [1] 0.421875

#Q2 0.6835937
pbinom(3, size = 4, p = 0.75)

## [1] 0.6835937

#Q3 0.6328125
1 - pbinom(3, size = 5, p = 0.75)

## [1] 0.6328125

#Q4 0.3445783
pnorm(1.2, mean = 2, sd = 2)

## [1] 0.3445783

#Q5 0.6554217
1 - pnorm(1.2, mean = 2, sd = 2)

## [1] 0.6554217

#Q6 0.3811686
pnorm(3.2, mean = 2, sd = 2) - pnorm(1.2, mean = 2, sd = 2)

## [1] 0.3811686

#Q7 The shape of the histogram becomes more skewed.
#Q8 The shape of the histogram resembles more of a normal distribution.
#Q9 The shape of the histogram resembles more of a normal distribution. It is
narrower than what I got in Q7.
#Q10 When the sample size is one, the sample mean is that one number. When
the sample size is two, we can calculate a mean and have a better
approximation.
#Q11 Parameters and sample size
#Q12 15625
25*25*25

## [1] 15625

#Q13 25B
```