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Session 16 Assignment 1

Probl: n = 20; r = 5

Probability of Success, p = \frac{1}{4}

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Binomial Distribution P = 20C_5 \left(\frac{1}{4}\right)^5 \left(\frac{3}{4}\right)^5

= \frac{20!}{5!(20.0)!} \left(6.25\right)^{15} \left(0.45\right)^5

= 15504 \left(0.25\right)^{15} \left(0.45\right)^5

= 15504 \left(0.25\right)^{15} \left(0.45\right)^5

= 15504 \left(0.25\right)^{15} \left(0.45\right)^5

= 15604 \left(0.25\right)^{15} \left(0.45\right)^{15}

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Probability of maly red balls = \frac{4}{10} = 0.4

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Possible outcomer = RR, RB, BR, BB (W) replacement)

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P(RB) = \frac{4}{10} \cdot \frac{3}{9} = 0.134

RB

P(RB) = \frac{4}{10} \cdot \frac{6}{9} = 0.267

P(BB) = \frac{6}{10} \cdot \frac{4}{9} = 0.267
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