

NR. 6)  $X$  ist  $B_{15; 0,3}$  verteilt  $\hat{=} n=15; p=0,3$  binomialverteilt

$$a) P(6 \leq X) = 1 - P(X \leq 5) = \underline{\underline{0,2784}}$$

$$b) P(X \leq 3) \approx \underline{\underline{0,2969}}$$

$$c) P(7 \leq X) = 1 - P(X \leq 6) \approx \underline{\underline{0,1311}}$$

$$d) P(X < 6) = P(X \leq 5) \approx \underline{\underline{0,7216}}$$

$$e) P(4 \leq X) = 1 - P(X \leq 3) \approx \underline{\underline{0,7031}}$$

$$f) P(X < 9) = P(X \leq 8) \approx \underline{\underline{0,9848}}$$

$$g) P(3 \leq X) = 1 - P(X \leq 2) \approx \underline{\underline{0,8732}}$$

$$h) P(1 < X) = P(2 \leq X) = 1 - P(X \leq 1) \approx \underline{\underline{0,9647}}$$

NR. 7  $X$  ist  $B_{20; 0,5}$  verteilt

$$a) P(2 \leq X \leq 6) = P(X \leq 6) - P(X \leq 1) \approx \underline{\underline{0,0576}}$$

$$b) P(3 \leq X \leq 7) = P(X \leq 7) - P(X \leq 2) \approx \underline{\underline{0,1314}}$$

$$c) P(4 < X \leq 10) = P(5 \leq X \leq 10) = P(X \leq 10) - P(X \leq 4) \approx \underline{\underline{0,5822}}$$

$$d) P(4 \leq X \leq 8) = P(X \leq 8) - P(X \leq 3) \approx \underline{\underline{0,2504}}$$

$$e) P(7 < X < 12) = P(8 \leq X \leq 11) = P(X \leq 11) - P(X \leq 7) \approx \underline{\underline{0,6167}}$$

$$f) P(8 \leq X \leq 15) = P(X \leq 15) - P(X \leq 7) \approx \underline{\underline{0,8625}}$$

$$g) P(5 \leq X < 10) = P(5 \leq X \leq 9) = P(X \leq 9) - P(X \leq 4) \approx \underline{\underline{0,4060}}$$

$$h) P(8 < X \leq 15) = P(9 \leq X \leq 15) = P(X \leq 15) - P(X \leq 8) \approx \underline{\underline{0,7424}}$$