

(2) WN/(1060, 45) (20) hDC 9) P(W<1000)=P(2<1000-1060) normalcof (1020,1070,1060,45) 2 0.4009 = P(2<-60) So P (both bags Low 1020 & 10700) ≈^(2<-1.33) 1 (0.4009) ~ 1-1°(₹<1.33) ~ ex 0.161 (35.6.) 公1-0.9082 二年日 2 0.0918 (3) MN N(52,183) a botter estimate is (a) $P(M > 83) = P(z > \frac{83-52}{18})$ obtained from normalcof (-9699, 1000, 1060, 45) x 0.09/2 #1(Z7172) b) P(W >1050)=P(Z > 1050-1060) * P(27 1/2) P(m>83) = 1- P(2 <1.92) 21(Z7-0.22) X 1-0.9573 2 0.0427 4.27% will receive groede 7. P(W>1050) = P(2<0.22) × 0.5871 mormale ((83, 9699, 52) 18) 1 0.0425. Sp 200(0.5871) = 117 or 4.25% obtains 7 A better potimate is obtained (b) P(43<m<53)-1(1)20<2<=

from 200 × normalcof (1050, 96, 99, 1060, 45) SCP(-0.5<2+0.056) x 118 (3 s.f.) [117.5859031...] 24) 1(1020/W<1070): P(1020-1060/Z<1070-1060) = 月袋(25 45) ~P(-0.89 < Z < 0.22) P(43/m/53) ~ P(2<0.056) - 1-P(2<0. ~ P(2<0.22)-P(2<0.89) -0th 022 1/2<0.72)-[1-P(2<0.89)] ≈ P(2<0.22)+P(2<0.89)-1

SX 05871+0.8133-1

x 0.4004

P(both lags bliv 10200 & 1070g) \$ 0.4004 (0.4004)

~ P(2<0056)+1/2(0.5)-1 ~ assig +0691\$-1 mean of P(200.05) and MEKO.06

x 0.2134 So 0.2134 (43) \$ 17 people.

