21236277 Q3 sample size is a statistic 24. 8 8 X 9 BY 5+6 = 5.5 TERRESTRÍAI 11! 2!x2!x3! = 1663200 4 possible lottery = 20 C6 210 = 38760 QII - P(R) = 0.19 R(C) = 0.32P(CNR) = 0.13P(RUC) = P(R) + P(C) - P(CNR)P(RUC) = 0.19 + 0.32 - 0.13

21236277 P(B) = 35 P(A) = 0.48 912 P(AUB) = 0.662 $P(A) \times P(B) = 0.168$ 0.662 = 0.48 + 0.35 - P(ANB) P(ANB) = 0.168 : independent P(ANB) = 0 : por not mutex. P(A/B) = 0.25 P(B/A) = 0.50 P(AUB) = 1 $P(B|A) = P(A\cap B)$ $P(A|B) = P(AB\cap A)$ P(A) = P(A)P(AIB) = P(BIA) · P(A) A P(AUB) = P(A) + P(B) -P(ANB) P(A)+P(B)-P(AUB)=P(ANB) P(AIB) = P(A)+P(B)-P(ANB)
P(B) 0-25 0.5 × P(A) P(B) 0.5 = P(A) 2.P(A) - P(B)

21236277 Q14. 25. 0.1 x 0.95 + 0.9x 0.2 = 0.275 P(AIB)? P(H) P(F) Q15. P(B/A) P(A) < 0.9 P(AIB) = P(BIA) . P(A) P(B) =0.18+650.12 0.9 × 0.2 6.3 Q16. E(x) = Ep x x (0.2)(-2)

21236277 $Var(x) = E(x^2) - E(x)$ Q17 Q18 x a Binomial (8, 0.25) 0.54, 3) 1(0.54) 3 (1-0.54) = 0.182 Q 19. 6 months P(x=2)= 0.27067

21236277 $\times \sim N(31.45, 35.29^2)$ 220 p(X < 36.74) $\frac{2-31.45}{5.29}$ $\frac{36.74-31.45}{5.29}$ $\chi \sim N(47.34, 5.24^2)$ Q21. $\rho(42.1 < X < 52.58)$ 52.58 42.1 P(X<52.58) - P(PX<42.1) $\frac{x-47.34}{5.24} = \frac{52.58-47.34}{5.24} = \frac{9(x-47.34)}{5.24} = \frac{42.1-47.34}{5.24}$ -P(z < -1 - 0.587 0.1587 0.8413 = 0.6826

X ~ N (45.64, 12.542) P(x < 9) = 9902 0-992 $P\left(\frac{x-45.64}{12.54} < \frac{9-45.64}{2.54}\right) = 0.992$ $\frac{2.41}{12.54} = \frac{9 - 45.64}{12.54}$ ê ± 1.96 p(1-p) p= 0.03 Re n = 1.96 4 p(1-p) n = 1067. i n = 1068

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Q24.	n= 79	20 passed first attemp	t Ans = 0.336
	Ho: normal	·	0.349
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57 70	10 0		
Q Z8	df = 8		
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