

38 a) distribution is skewed to the right. Ana is more likely to get 1 or 2 tickets than 4 or 5

b) $\mu_T = 2.38$ tickets After many rolls, Ana will receive about 2.38 tickets per roll, on avg.

c) $\sigma_T = 1.263$ tickets. The # of tickets that Ana wins typically vary by about 1.263 from the mean (2.38)

58. $\mu_{x_1+x_2+x_3+x_4} = \1213.40

$\sigma_{x_1+x_2+x_3+x_4} = \19415.14

$\sigma_V = \frac{1}{4} (19415.14) = \4853.79

$\mu_V = \frac{1}{4} (1213.40) = \303.35

74. a) Not binomial

B - "Success" = make "Failure" = miss

I - yes

N - $n = 20$

S - prob. of success is likely to change

b) Binomial

B - "success" = make "Failure" = miss

I - yes

N - $n = 150$

S - $p = 0.8$

102. C

82. a) $\mu_X = 2.4$ If we tested many groups of 12 truthful applicants, we would expect about 2.4 ppl to be declared deceptive

b) $\sigma_X = 1.39$ " " expect the # of ppl declared deceptive to vary by about 1.39 from the mean (2.4)