flomework 6

I pledge my honor was it have about the Kode -Caparajete Ren

Problem 9.37: [

Stratum # allowed total Jma11 57 a) Medium 12 harge

Totals: 67: allowed

12 not allowed

79: total sample;

b) Small: 6/57 = 10.5%.

Medium: 5/17 = 29.4%

Large: 1/5 = 2011.

C) Strat	# allowed	# not allowed	tolal
small	51	6	57
med 9 large	16	L	22
total	67	12	79

d) Ho: no relationship between being allowed & claim size We combine them because large's sample size of #1 not allowed is too small

e) Table: surrach | allowed | not allowed mediarge 48.34 8.66

x1 = 8 (8-E)2 = 3.46

, degrees of freedom: I p-val: 0.063, 0.06370.05 so we accept the nell hypo. There's no relationship.

9.38 ~ Jopulation Estimate:

a) Small: 6/57 = 0.105 x 3,342 = 350.91 7351 Not Allowed Medium, 5/17 = 0.294 x 246 = 72.324 x [72 Not Allowed Large: 1/5 = 0.20 x 58 = 11.6 2 [12 Not Allowed]

b) Sample error = \(\frac{p(1-p)}{n} \), \(\frac{951. C1}{2} \), \(\frac{2}{3} \).

SE small: \[\frac{105 + 0.895}{57} = 0.04060 \(\frac{7}{7} \) \\
HEMEdium = 1.96 × 0.1104 = 0.217

SE medium: [0.24-0.706 = 0.1104]
SE large: [0.2+0.5] = 0.179

(HESmall: 1.96 = 0.0406 = 0.08 (ME Large: 1.96 x 0.179 = 0.35

9.50 ~ Goodness of Fix

group	Count	Prob	Expt. Count
X 4 -0.6	139	0.2743	137.15
-0.6 L Y & O. 1	102	0.1889	92.15
-0.16 X £ 0.1	141	0.0796	39.8
0.12 x & 0.1	6 78	0.1859	92.95
×70.6	140	0.2743	137.15

Degree Freedom: 4, x2 = 3.406 p-val=0.4423, this is > 0.05=fail to reject so distribution is normal 9.51~ More Goodness of Fit

group 1	(ount	probl	Expt. Count
X 4-0.7	112	0.242	12.1
-0.7 KYE-0.2	82	0.178	89,35
-0.26 Y & O.2	77	0.151	79.3
0.2 4 X 5 0. =	111	0.178	89,85
X 70.7	1115	0.24	2/121

Degrees of Freedom: 4, x2 2 6. 66 p-vali 0.155, this is > 0.05 80 we fail to reject the null hypo, distribution is normal.