

HOMWORK: TWO-SAMPLE TESTS FOR THE PROPORTION

PROBLEM 1:

Compare the pass rates on the Certified Financial Planning (CFP) exam using two learning approaches. Test at .05 significance level.

Traditional Approach (classroom instruction): 72/300 passed exam
 Fully Online Approach: 40/200 passed exam

PROBLEM 2:

Percentage of people getting AIDS. Is there a difference ? Test at .05 significance level.

Uncircumcised Men: 76/400 Infected with AIDS (19%)
 Circumcised Men: 4/100 Infected with AIDS (4%)

PROBLEM 3:

Is there a difference between the two suppliers of solar panels in proportion of defectives?

Test at significance level =.01

Supplier A: 30/600 solar panels =defective

Supplier B: 10/400 solar panels =defective

PROBLEM 4:

Which school does better on the CPA exam? Test at .10 significance level.

CUNY: 30/100 Passed CPA Exam (all four parts)

SUNY: 40/180 Passed CPA Exam (all four parts)

PROBLEM 5:

Effect of estrogen on Alzheimer's Disease.

Test at $\alpha=.05$

Of the Women receiving estrogen: 7/100 developed Alzheimer's

Of the Women not receiving estrogen: 27/150 developed Alzheimer's

PROBLEM 6:

Direct Mail –Should Company use Sweepstakes, or not? Test at $\alpha=.05$

	Sweepstakes	No Sweepstakes
Mailed Out	5,000	4,000
# of Orders	100	60