

3b) Now suppose title A has 1600 impressions, title B has 1200 impressions, and title C has 1500 impressions but the clicks/views are still 60, 31, and 41 respectively. Compare the new p-value with that of part a – is it larger,

smaller, or about the same? Why is this the case? Give an intuitive justification.

OLD:

A: 60/160 = 0.375 B: 31/120 = 0.258 C: 41/150 = 0.273

NEW:

A: 60/1600 = 0.0375 B: 31/1200 = 0.0258 C: 41/1500 = 0.0273

With many more samples, the new CTRs should yield a smaller p-value with more statistical significance, despite the relative differences between each other being the same.