

Example 6: A recent Angus Reid Institute poll<sup>2</sup> asked  $n = 1491$  randomly chosen Canadians the following question:

Canada's two major airlines - Westjet and Air Canada - have announced there will now be a \$25 fee for each piece of checked luggage on all economy fare tickets in North America and the Caribbean. Travelers will no longer get to check their first bag for free. What is your overall view of airlines charging a fee to check baggage? In your view is this:

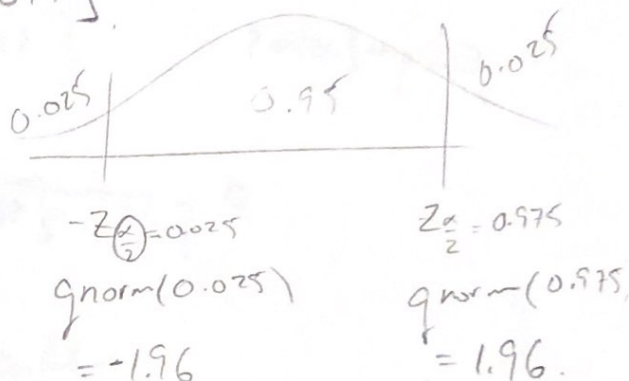
1. Unacceptable - just a money grab
2. Acceptable - as a business they should charge what they think they need to
3. No opinion

1,119 responded 'unacceptable'. Find a 95% confidence interval for the proportion of all Canadians who believe a baggage fee of \$25 is unacceptable.

$$\hat{p} \pm z_{\frac{\alpha}{2}} \sqrt{\frac{\hat{p}(1-\hat{p})}{n}} ; \hat{p} = \frac{1119}{1491}$$

$$z_{0.975} \approx 1.96$$

$$[0.7285387, 0.7724674]$$



<sup>2</sup> <http://angusreid.org/three-in-four-canadians-call-airlines-new-checked-luggage-fees-unacceptable-money-grab/>