

H_0 : p (proportion of defective apples) = 0.04 is true

H_1 : $p \neq 0.04$ (population)

$p = 0.04$; $Q = 0.96$; $n = 600$; $x = 36$

p' (sample proportion) = $36/600 = 0.06$

$$|z| = \frac{0.06 - 0.04}{\sqrt{\frac{0.04 \times 0.96}{600}}} = 2.5$$

Since, $|z| = 2.5 > 1.96$ at 5% significant level.

Hence, H_0 is rejected i.e. claim is not acceptable.