231 $\hat{p} = \frac{x}{n}$ $\quad V(\hat{p}) = \frac{p(1-p)}{n}$

$V(\hat{p}) = V\left(\frac{x}{n}\right) = \frac{1}{n^2} V(x)$

* since x is a binomial rv w/ p & n parameters we know that $V(x) = np(1-p)$

$= \frac{1}{n^2} \cdot np(1-p) = \frac{p(1-p)}{n}$