

$$P(S) = \frac{6}{25} = 0.24$$

Mean =
$$\sum_{k=0}^{2-1} 2kp(2k) = (0)p(0) + (1)p(1) + (2)p(2) + ... + 255p(255)$$

= $(1)(0.16) + (5)(0.24) + (10)(0.24) + (100)(0.36)$
= 39.76

=
$$(1-39.76)^2(0.16) + (5-39.76)^2(0.24) + (10-39.76)^2(0.24)$$

+ $(100-39.76)^2(0.36)$