



Given that,

Solutions

1a.

$X \sim B(25, 0.5)$	M1
$P(X \leq 7) = 0.0216$ $P(X \geq 18) = 0.0216$	M1
Therefore, critical region, $X \leq 7$; $\cup X \geq 18$	M1

1b.

$P(\text{rejecting } H_0) = 0.0216 + 0.0216$	M1
$= 0.0432$	M1

