



(7)

Solutions

1.

$H_0 : p = 0.5$	M1
$H_1 : p > 0.5$	M1
$X \sim B(30, 0.5)$	M1
$P(X \geq 21) = 1 - P(X \leq 20)$ $= 1 - 0.9786$	M1
$= 0.0214$	M1
Therefore, value is significant and we reject the H_0	M1
This suggests that David claim is incorrect and the weather forecast produced by the local radio is better than those achieved by tossing/flipping a coin.	M1

