

Using the Binomial Formula

Exercise: Calculate the following Binomial probabilities

$X \sim B(n, p)$	$P(X = r)$	Working out and answer
$X \sim B(8, 0.5)$	$P(X = 4)$	
$X \sim B(5, 0.4)$	$P(X = 3)$	
$X \sim B(10, 0.9)$	$P(X = 8)$	
$X \sim B(4, 0.2)$	$P(X = 0)$	
$X \sim B(6, 0.35)$	$P(X = 2)$	

**The next questions can be done with a formula but it can be time consuming
can you research a follow up method.**

$X \sim B(n, p)$	Probability wanted	Working out and solution
$X \sim B(7, 0.8)$	$P(X \geq 5)$	
$X \sim B(20, 0.6)$	$P(X \leq 11)$	
$X \sim B(50, 0.65)$	$P(X > 22)$	