## **6C Cumulative Probabilities on The Binomial Distribution**

- 1. The random variable  $X \sim B(20, 0.4)$ . Find:
- a)  $P(X \le 7)$

b) P(X < 6)

c)  $P(X \ge 15)$ 

2.	A spinner is designed so that the probability it lands on red is 0.3. Jane has 12 spins. Find the probability that Jane obtains:
a)	No more than 2 reds
b)	At least 5 reds
3.	Jane decides to use this spinner for a class competition. She wants the probability of winning a prize to be less than 0.05. Each member of the class has 12 spins and the number of reds is recorded.
	Find how many reds should be needed to win a prize