3 Kayla is competing in a throwing event. A throw is counted as a success if the distance achieved is greater than 30 metres. The probability that Kayla will achieve a success on any throw is 0.25.

    (a) Find the probability that Kayla takes more than 6 throws to achieve a success. [2]

    (b) Find the probability that, for a random sample of 10 throws, Kayla achieves at least 3 successes. [3]