A biased four-sided spinner has edges numbered $1, 2, 3, 4$ . When the spinner is spun, the probathat it will land on the edge numbered $X$ is given by		
$P(X=x) = \begin{cases} \frac{1}{2} - \frac{1}{10}x \end{cases}$	x = 1, 2, 3, 4,	

In this question you must show detailed reasoning.

of X.

## (a) Draw a table showing the probability distribution of X.

(a) Draw a table showing the probability distribution of X.[1] The spinner is spun three times and the value of X is noted each time.

The spinner is spun three times and the value of X is noted each time.

(b) Find the probability that the third value of X is greater than the sum of the first two values

[3]