

**278.** You are given:

- (i) A random sample of payments from a portfolio of policies resulted in the following:

Interval	Number of Policies
$(0, 50]$	36
$(50, 150]$	$x$
$(150, 250]$	$y$
$(250, 500]$	84
$(500, 1000]$	80
$(1000, \infty)$	0
Total	$n$

- (ii) Two values of the ogive constructed from the data in (i) are:

$$F_n(90) = 0.21, \quad \text{and} \quad F_n(210) = 0.51$$

Calculate  $x$ .

- (A) 120  
(B) 145  
(C) 170  
(D) 195  
(E) 220