

53. You are given:

Number of Claims	Probability	Claim Size	Probability
0	$\frac{1}{5}$		
1	$\frac{3}{5}$	25	$\frac{1}{3}$
		150	$\frac{2}{3}$
2	$\frac{1}{5}$	50	$\frac{2}{3}$
		200	$\frac{1}{3}$

Claim sizes are independent.

Determine the variance of the aggregate loss.

- (A) 4,050
- (B) 8,100
- (C) 10,500
- (D) 12,510
- (E) 15,612