

- 91.** The number of auto vandalism claims reported per month at Sunny Daze Insurance Company (SDIC) has mean 110 and variance 750. Individual losses have mean 1101 and standard deviation 70. The number of claims and the amounts of individual losses are independent.

Using the normal approximation, calculate the probability that SDIC's aggregate auto vandalism losses reported for a month will be less than 100,000.

- (A) 0.24
- (B) 0.31
- (C) 0.36
- (D) 0.39
- (E) 0.49

- 92.** Prescription drug losses, S , are modeled assuming the number of claims has a geometric distribution with mean 4, and the amount of each prescription is 40.

Calculate $E[(S - 100)_+]$.

- (A) 60
- (B) 82
- (C) 92
- (D) 114
- (E) 146