

101. Solution: D

Note that due to the independence of  $X$  and  $Y$

$$\text{Var}(Z) = \text{Var}(3X - Y - 5) = \text{Var}(3X) + \text{Var}(Y) = 3^2 \text{Var}(X) + \text{Var}(Y) = 9(1) + 2 = 11 .$$