Quiz: HSA.SSE.A.1b

1. A rental car company advertises a midsize car for a standard rate per day, which includes 100 miles per day. There is an additional fee per mile.

   The expression $d(9.99)+0.20(m-100d)$ represents a customer's total rental fee.

   Complete each statement.

   The quantity _____ represents the total mileage charge.

   The quantity _____ represents the total daily fee.

   The quantity _____ represents the number of miles for which the customer must pay an additional fee.

   Write the values in the blanks to correctly complete each sentence.

2. The expression $-16(t+0.5)(t-1)$ represents the height of a volleyball, in feet, t seconds after a player serves it.

   Select the true statements about the expression.

   Select all that apply.

   A. The expression is the product of a constant and two factors that are dependent on the time since the ball was served.

   B. The constant factor represents the acceleration of the ball due to gravity.

   C. The second factor $(t+0.5)$ represents the time, in seconds, until the ball hits the ground.

   D. The third factor $(t-1)$ represents the time, in seconds, until the ball reaches its maximum height.