Name: _____

Read each question. Then fill in your answer.

1. A taxi service charges a base fee of $5.00 for each fare. In addition, the service charges a $1.75 per minute fee. Which equation relates the total cost of a fare, C, to the length of the ride, in minutes, m?

   Ⓐ $C = 1.75m + 5.00$

   Ⓑ $C = 5.00m + 1.75$

   Ⓒ $C = (5.00 + 1.75)m$

   Ⓓ $C = 5.00 + 1.75 + m$

2. The length of a rectangular pool is three feet less than double the width. Which equation represents the area, in square feet, A, of the pool in terms of the length, l?

   Ⓐ $A = l(3 - 2l)$

   Ⓑ $A = l\left(\frac{l+3}{2}\right)$

   Ⓒ $A = l(2l - 3)$

   Ⓓ $A = l\left(\frac{1}{2}l + 3\right)$

3. Raelyn owns a bakery that sells 80 cupcakes every day for $2.00 a piece. By analyzing her previous sales, she predicts that a rise in the cost of a cupcake by $0.05 will result in selling one less cupcake each day.

   Based on Raelyn's analysis, which of the following equations models the bakery's daily revenue if Raelyn increases the price of cupcakes by 0.05x$?

   Ⓐ $R(x) = (2.00 \times 80) - (0.05x)$

   Ⓑ $R(x) = (2.00 \times 80) + (0.05x)$

   Ⓒ $R(x) = (80 - 0.05x)(2.00 + x)$

   Ⓓ $R(x) = (80 - x)(2.00 + 0.05x)$

