Quiz 14.1

Consider this situation for questions #1 & #2.

A teacher has $40 to buy apples and bananas for her 5th grade class. The apples cost $3.50 per pound and the bananas cost $4.00 per pound.

1.   Which of the following equations can be used to represent the number of pounds of apples (*a*) and the number of pounds of bananas (*b*) that the teacher can buy for $40?

   a) $3.50b - 4.00a = 40.00$
   b) $3.50a - 4.00b = 40.00$
   c) $3.50b + 4.00a = 40.00$
   d) $3.50a + 4.00b = 40.00$

2.   If the teacher buys 8 pounds of apples, how many pounds of bananas can she buy?

   a)   2 pounds
   b)   3 pounds
   c)   4 pounds
   d)   5 pounds

Consider this situation for questions #3 & #4.

For a camping trip, the cost to rent a canoe is $25 plus $5.50 per hour.

3.   Which of the following equations can be used to represent the total cost (*c*) of renting a canoe for (*h*) hours?

   a) $c = 5.50h + 25$
   b) $c = 25h + 5.50$
   c) $c + 5.50h = 25$
   d) $c + 25h = 5.50$

4.   How much would it cost to rent a canoe for 4 hours?

   a) $105.50
   b) $47.00
   c) $30.50
   d) $10.50