Linear equation scenarios – answer key

Name _____ Date _____

For each of the scenarios below, write out:
   a. The formula to calculate what is needed
   b. The constant amount(s)
   c. The variable amount(s)

Scenario 1:
You are a cell phone company and are trying to figure out a way to easily calculate how much a person's monthly bill will be if he or she uses more minutes than his or her plan allows. If you charge $35.99 per month for service and $0.35 per additional minute, what formula could you use?

a. _____*Monthly bill = $35.90 + $0.35 times additional minutes*_____
b. _____*$35.00 and $0.35*_____
c. _____*Total number of additional minutes*_____

Scenario 2:
You are a rental car owner and are trying to determine a way to easily calculate how much a person should be charged for renting a car. If you charge $25 to rent the car and $0.20 per mile, what formula could you set up?

a. _____*Total cost = $25 + $0.20 times miles driven*_____
b. _____*$25 and $0.20*_____
c. _____*Miles driven*_____

Scenario 3:
You operate an amusement park and are trying to determine a way to easily calculate how much to charge for groups to enter your park. If you charge $55.95 for the first five (5) people and $9.95 for each additional person, what formula could you set up?

a. _____*Cost to enter amusement park = $55.95 +$9.95 times additional*_____
_____*people*_____
b. _____*$55.95 and $9.95*_____
c. _____*Additional people*_____