Scenario A: Mrs. Monroe is putting new ceramic tile on her outside kitchen counter (beside her barbecue pit on her patio). The dimensions of the counter are ft by ft. Mrs. Monroe is going to use tiles that are 6 in. by 6 in. The tiles come in boxes of dozen tiles.

1. What is the area of Mrs. Monroe’s outside kitchen counter (in square feet)? \_\_\_\_\_\_\_\_

2. What are the dimensions of one tile in feet? \_\_\_\_\_\_\_\_ ft by \_\_\_\_\_\_\_\_ ft

3. What is the area of one tile (in square feet)? \_\_\_\_\_\_\_\_

4. How many tiles does Mrs. Monroe need for her outside kitchen counter? \_\_\_\_\_\_\_\_

5. How many boxes of tiles does Mrs. Monroe need to buy? \_\_\_\_\_\_\_\_\_

6. Mrs. Monroe must pay $11.16 for a box of 18 tiles. She must also pay an 8% sales tax.

* What is her total cost for the tiles?

\_\_\_\_\_\_\_\_

* What is her change if she pays with six $20 bills? \_\_\_\_\_\_\_\_\_

Scenario B: Mrs. Torres bought a keyboard for her son. Its regular price was $76, but it was on sale for 30% off. Mrs. Torres also had to pay an 8% sales tax.

7. What is SALE price of the keyboard (before tax)? \_\_\_\_\_\_\_\_

8. What was the final amount that Mrs. Torres paid for the keyboard? \_\_\_\_\_\_\_\_

Scenario C: Maria worked this summer, so she opened up a student checking account.

9. Maria started the week with $314 in her account. She deposited $35 cash and a check for $56. She used her debit card for three purchases: $8, $23, and $11. Which expression can be used to represent the amount of money that Maria now has in her account?

A 314 - 35 - 56 + 8 + 23 + 11

B 314 + 35 + 56 – 8 + 23 + 11

C 314 + 35 + 56 – (8 + 23 + 11)

D 314 + 35 + 56 – (8 - 23 – 11)

10. How much money does Maria now have in her account? \_\_\_\_\_\_\_\_

11. Maria noticed that the bank took off three bank fees of four dollars each; apparently the bank had wrongly charged her. Write an expression to represent this situation. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. Maria also noticed that she had two bank fees that were five dollars each.

Write an expression to represent this situation. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13. How much money does Maria now have in her account? \_\_\_\_\_\_\_\_

Skills Practice: Simplify each expression.

14. (-4)(-2)(-5)=\_\_\_\_\_ 15. 80(-5)(-4)=\_\_\_\_\_

16. -2 + 5 = \_\_\_\_\_ 17. -4 + (-2) = \_\_\_\_\_

18. -4 – 4 = \_\_\_\_\_ 19. -6 – (-4) = \_\_\_\_\_

20. -5 – 2 = \_\_\_\_\_ 21. -2 – (-5) = \_\_\_\_\_