Arithemtic Algorithms   Name:_____

MA 201

1. Use units, strips, and mats to evaluate 15×5.

2. Use place value cards to evaluate 15×5.

3. Use expanded notation to evaluate 175×234. Be sure to justify each step.

4. Use the instructional algorithm to evaluate 175×234.

5. Use units, mats, and strips to evaluate $637 \div 4$.

6. Use place value cards to evaluate $637 \div 4$.

7. Use the long division algorithm to evaluate $53,964 \div 210$. Check your work.

8. Use the scaffold algorithm to evaluate $53,964 \div 210$.

9. Use the short division algorithm to evaluate $53,964 \div 210$.

10. Evaluate $288_{nine} \times 7_{nine}$.

11. Evaluate $88_{nine} \times 32_{nine}$.

12. Evaluate $88_{nine} \div 12_{nine}$.

13. Evaluate $432_{five} + 224_{five}$.

14. Evaluate $643_{seven} - 244_{seven}$.

15. Use units, strips, and mats to evaluate $437 + 695$.

16. Use place value cards to evaluate $437 + 695$.

17. Use instructional algorithm to evaluate $437 + 695$.

18. Use a place value diagram to evaluate $437 + 695$.

19. Use units, strips, and mats to evaluate $953 - 679$.

20. Use place value cards to evaluate $953 - 679$.

21. Use instructional algorithm to evaluate $953 - 679$.

22. Use a place value diagram to evaluate $953 - 679$.

23. Draw an area diagram to represent 123×65. You do not need to put all of the grid lines in the area diagram. Explain how this diagram relates to the instructional algorithm for multiplcation.