Algebraic Reasoning

Unit 5, Bundle 3 Summative Assessment

Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Determine whether or not the two matrices can be multiplied as *CD* and justify your answer? (AR.5B)
   1. No, because *C* has 2 columns and *D* has 2 rows.
   2. Yes, because *C* has 2 columns and *D* has 2 rows.
   3. No, because *C* and *D* do not have the same number of rows and columns.
   4. Yes, because *C* has 3 rows and *D* has 3 columns.
2. Find *AB* if: (AR. 5B)
3. Write a matrix equation to represent the system of linear equations and solve the system using matrices. (AR.5D)
4. Which matrix equation can be used to solve the system below?