Algebraic Reasoning

Unit 5, Bundle 1 Summative Assessment

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

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

1. The matrix shows the average revenue collected over the course of a month at the Preakness Amusement Park for selling corndogs, popcorn, and soda on Saturdays and Sundays. What are the dimensions of the matrix? (AR.5)
2. Given matrix , which entries have a sum less than -8? (AR.5A)
3. Using the matrices , determine which statement is NOT true. (AR.5A)
4. The matrices below represent the attendance at two performances of a school play on both Saturday and Sunday by children (*c*), adults (*a*), and seniors (*s*). (AR.5A)

Matrix A

Saturday attendance:

Matrix B

Sunday attendance:

If matrix *C* represents the combined attendance for both Saturday and Sunday, what would the entry represent?

1. A total of 62 children attended the play.
2. A total of 322 adults attended the play.
3. A total of 177 adults attended the play during the matinees.
4. **A total of 17 children attended the play during the evenings.**