Week of Aug. 24-28

Middle School Summer Math Challenge (Incoming 6th grade)  
* Required

1. Student Number *

2. My name is: *

3. Next year I will be attending *
   
   *Mark only one oval.*
   
   - Eisenhower Middle School
   - Evergreen Middle School
   - Gateway Middle School
   - Heatherwood Middle School
   - North Middle School
4. 1. Middletown Middle School offered 3 lunch options on Monday: a chicken sandwich, the salad bar, or a PB & J sandwich (peanut butter and jelly). When students came through the lunch line, 4 students took a PB & J for every 3 students who had the salad bar. For every 2 who chose the salad bar, 1 student got a chicken sandwich. The cafeteria served 48 PB & J’s. How many students had school lunch that day?

*Mark only one oval.*

- 84
- 102
- 120
- 148
5. How many squares can you count in the figure below?

[Image of a 4x4 grid]

Mark only one oval.
- 17 squares
- 24 squares
- 25 squares
- 30 squares

6. Danica and Chyron live on the same street, 1 mile away from each other. Danica can walk 1 mile every 15 minutes, and Chyron can walk 1 mile every 20 minutes. If Danica and Chyron leave their houses at the same time and start walking toward one another, will it take them more than, less than or exactly 10 minutes to meet?

Mark only one oval.
- More than 10 min.
- Less than 10 min
- Exactly 10 min.
7. 4. What is the smallest fraction that can be written as a ratio of 2 two-digit numbers using the digits 2, 4, 5, and 9 each exactly once? (write in the form a/b)

8. 5. This pattern continues for 500 letters. MATHISAWESOMEMATHISAWESOMEMATHISAWESOME ... What is the 100th letter?

9. What is the 499th letter?