Week of August 19-23
Middle School Summer Math Challenge

* 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
   - CHS (9th grade)
   - EHS (9th grade)
   - JHS (9th grade)
   - Port Gardner
   - Other

4. A cube has a total surface area of 54 square inches. What is the volume of the cube? (cubic inches) *

5. Three teams of biologists decide to sample the population of fish in a pond to learn more about the species. • Team 1 collects 45 bluegill, 25 walleye, and 30 sunfish. • Team 2 collects 50 bluegill, 10 walleye, and 40 sunfish. • Team 3 collects 50 bluegill, 18 walleye, and 32 sunfish. Approximately what fraction of the fish population would you expect is composed of sunfish? *
   Mark only one oval.
   - 1/5
   - 1/4
   - 1/3
   - 2/5
   - 2/3
6. Darius drove from his house to his mother’s house, which is 60 miles away. On the way there, he drove 60 miles per hour (mph). But because of construction on the way home, he was able to drive only 30 mph. What was Darius’s average speed for the entire trip? (mph) *

7. What digits can the last digit (i.e., the units place) of the square of an integer not be? (select all that apply) *
   
   Check all that apply.
   
   [ ] 0
   [ ] 1
   [ ] 2
   [ ] 3
   [ ] 4
   [ ] 5
   [ ] 6
   [ ] 7
   [ ] 8
   [ ] 9

8. Jamelle has been adding 1 penny to her piggy bank every day since she turned 6 years old. Today, she turned 10. How much money has she collected in that amount of time? (Answer Format $dd.cc) *