Week of Aug. 10-14

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
   - [ ] Other
4. 1. Anita's bike shop sells both bicycles and tricycles. There are 25 seats and 60 wheels in her shop. How many bicycles are there? (Assume that none of the cycles are tandems built for two.)

*Mark only one oval.*

- [ ] 5 bicycles and 20 tricycles
- [ ] 10 bicycles and 15 tricycles
- [ ] 12 bicycles and 13 tricycles
- [ ] 15 bicycles and 10 tricycles
- [ ] 15 bicycles and 8 tricycles
5. Suppose that point O has coordinates (0, 0), and the points P and Q have coordinates that are whole numbers between 0 and 2, inclusive. One example of a triangle with O, P, and Q as vertices is shown below. How many such triangles are right triangles?

Mark only one oval.

☐ 10
☐ 12
☐ 14
☐ 16

6. You have plenty of $1 and $2 bills. In how many different ways can you give your friend $40?

Mark only one oval.

☐ 20
☐ 21
☐ 22
☐ 24
7. 4. Create a set of 5 whole numbers, using the numbers from 1 to 10, that have the same mean, median, and range

8. 5. Mr. Freesia is putting together bouquets for the annual flower sale. He bought 32 roses, 64 carnations, and 48 peonies and wants to use all the flowers to make bouquets. If Mr. Freesia wants all the bouquets to be the same, what is the greatest number of bouquets that he can make? How many of each flower will be in a bouquet?

Mark only one oval.

☐ 4
☐ 8
☐ 16
☐ 32

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