GRADES 5-6

Name _____

School_____ **Grade**_____

E-mail_____ **Phone**_____

Home address_____

1. The clock is 2 hours 20 minutes ahead of the correct time each week. The clock is set to the correct time at midnight Sunday to Monday. What time does this clock show at 6pm correct time on Thursday?

2. Five cities A, B, C, D, and E are located along the straight road in the alphabetical order. The sum of distances from B to A, C, D and E is 20 miles. The sum of distances from C to the other four cities is 18 miles. Find the distance between B and C.

3. Does there exist distinct digits a, b, c, and d such that $\overline{abc} + \overline{c} = \overline{bda}$? Here $\overline{abc}$ means the three digit number with digits a, b, and c.

4. Kuzya, Fyokla, Dunya, and Senya participated in a mathematical competition. Kuzya solved 8 problems, more than anybody else. Senya solved 5 problem, less than anybody else. Each problem was solved by exactly 3 participants. How many problems were there?

5. Mr Mouse got to the cellar where he noticed three heads of cheese weighing 50 grams, 80 grams, and 120 grams. Mr. Mouse is allowed to cut simultaneously 10 grams from any two of the heads and eat them. He can repeat this procedure as many times as he wants. Can he make the weights of all three pieces equal?