MATH SUPERSTARS – 6

Uranus, XX

★★   1. I am a four-digit number.
     All of my digits are *odd* numbers.
     Each of my digits is different.
     My *thousands* digit is the smallest counting number.
     My *tens* digit is less than my units or hundreds digit.
     The sum of my first and last digits is the same as the sum of my two middle digits.

     What number am I?

CAN YOU FIND ME? □ □ □ □

★★★   2. Karen's company needed to reduce its expenses. Her salary was cut by 10%. Later, her company decided to give her a raise. By what percent must her salary then be raised to bring it back to the original amount?

             Answer :_____ percent

★   3. What math symbol can be placed between the 2 and the 3 in "23" to make a number greater than 2 but less than 3?

             Answer: _____

★★   4. A spaceship launched from Earth was in orbit for $29\frac{1}{2}$ days. What is the closest estimate for the number of hours it was in orbit? Ring your answer.
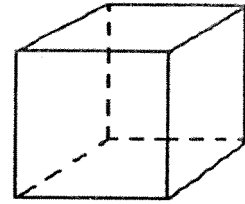
     a) 700 hours   b) 750 hours   c) 650 hours

★★   5. The sixth grade math club gave this problem to its members to solve:

$$\boxed{13.6} + \boxed{2.7} - \boxed{4.8} \times \boxed{1.7} + \boxed{0.11} \Rightarrow \boxed{}$$

Solve the problem for them by writing the correct answer in the box. But don't forget "My Dear Aunt Sally" or you'll miss it!

★★ 6. Number each of the eight corners on the cube from 1 to 8 so that the sum of any four numbers at the corners of each face is 18.
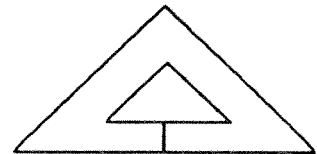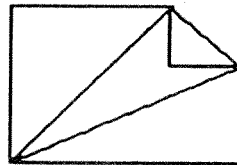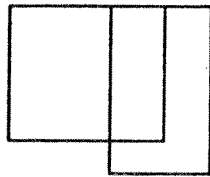
★★★ 7. The telephone company has 16 computer-controlled switching systems. Each system handles 650,000 calls *an hour*. The systems work with 98% accuracy. How many calls would not be accurately answered in *a day*?

Answer: _____ calls

★★ 8. There are two ways you can make change for a dollar bill using exactly 50 coins. How many of each coin would you use for each way? Write your answers in the chart below.

	pennies	nickels	dimes	quarters	half dollars
first way:					
second way:					

★★★ 9. The designs below are called *one-drawable*. This means you can draw them with one continuous line without lifting your pencil or retracing a line, if you start in the right place.

Which of the designs below are *one-drawable*? Circle your answers.

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