I. Complete all the problems that you did not finish in class.

Decimal system

1.1. Find all natural numbers that are 5 times bigger than their units digit.

1.2. Find all two-digit numbers that are 7 times bigger than their units digit.

1.3. Find the two-digit number which is 5 times bigger than the sum of its digits.

1.4. Find the two-digit number that is 3 times bigger than the sum of its digits.

1.5. I bought a lottery ticket and the sum of its five digits turned out to be the age of my neighbor. Find the number of the lottery ticket if it is known that my neighbor easily solved this problem.

1.6. How many natural numbers n are there such that for the two numbers n and n+937 only one will be a three-digit number?

1.7. Give an example of a four digit number whose first digit shows how many zeros the number has, the second - how many ones, the third - how many twos, and the fourth - how many threes (in the decimal system).

Comparison of numbers

1.8 Cross out five digits out of the number 5041638 so that you end up with the largest possible number.

1.9. a) Make up the largest five-digit number whose decimal notation consists of distinct odd digits.
   b) Make up the smallest five-digit number whose decimal notation consists of distinct even digits.

1.10. In the family, the older child has 4 brothers and 2 sisters, and the younger one has 3 brothers and 3 sisters. Is the older child a boy or a girl?

1.11. Nick the rabbit and Kate the squirrel are in the same class of the Rabbits And Squirrels School. There are twice as many rabbits in this class as squirrels. Nick the rabbit has 7 more rabbit classmates than squirrel classmates. How many squirrel classmates does Kate the squirrel have?

1.12. Winnie the Pooh has 25 full large barrels of honey. It is known that with this amount of honey he can fill exactly 45 small barrels. Will he be able to pour his honey into 20 large and 9 small barrels?

1.13 There are as many barefoot boys running around the field as there are girls wearing shoes. Are there more girls or more barefoot children on the field?

1.14 If every poodle puppy gets one treat and every boxer puppy gets two treats, there will be enough treats for everyone. If every boxer puppy gets one treat, and every poodle puppy gets two treats, there won't be enough treats for everyone. If the poodles get no treats at all, will there be enough treats to give each boxer puppy three treats?

1.15 Five first graders stood in a line and held 37 flags. Everyone to the right of Tal together has 14 flags, to the right of Jake - 32 flags, to the right of Vera - 20 flags, to the right of Max - 8 flags. How many flags does Lila have?

II. Math Kangaroo Problems.

- 4 Point Questions -

9) A bridge is being build over a 120m wide river. One quarter of the bridge continues on land on the left bank, another quarter continues on land on the right bank. How long is the bridge?
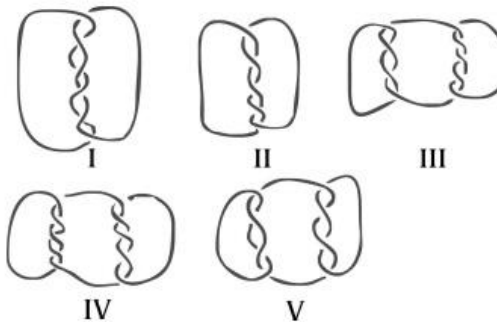
A) 150 m **B)** 180 m **C)** 210 m **D)** 240 m **E)** 270 m

10) In a park there are some cats and dogs. The number of cats feet is double the size of the number of dogs noses. The number of cats is …… ??? ……. of the number of dogs.

A) double the size **B)** half the size **C)** the same size
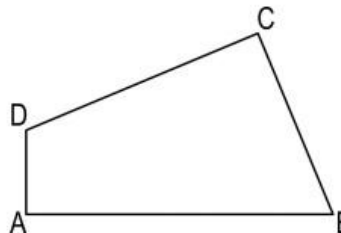**D)** a quarter the size **E)** a sixth of the size.

11) Which of the following is made using more than one piece of string?

A) I, III, IV and V **B)** III, IV and V
C) I, III and V **D)** all
E) None of these answers

I   II   III

IV   V

12) The quadrilateral on the right has the following side lengths: AB = 11, BC = 7, CD = 9 and DA = 3. The angles at points A and C are right angles. What is the area of the quadrilateral?

A) 30 **B)** 44 **C)** 48 **D)** 52 **E)** 60

END OF HOMEWORK!
Print following pages for next week's classwork