Arcade of Problems #1

Cad is a secret number.

Clue 1

Cad is one of these numbers.



Put each of these numbers in the string picture.



Put each of these numbers in the string picture.



Label the dots.



The least even number in this picture is _____.

The greatest multiple of 4 in this picture is _____.

Put a one-digit number in each box to make the calculations correct.



Color one-half of each shape red.

Write another name for $\frac{1}{2}$ as suggested by the picture.



Fill in the boxes for the arrows and label the dots.



Put each number on the Minicomputer using exactly one of these checkers.



Write a fraction to indicate what part of the shape is colored blue. One is done for you.



Draw an arrow road from 2.8 to 8.6 using +2.0 and +0.6 arrows.







Fill in the box for each arrow.



The red label is one of these:



The blue label is one of these:

Greater than 5					
Even numbers					
Multiples of 3					
Multiples of 5					
Positive divisors of 16					
Positive divisors of 20					

Label the strings.



Label the dots. Many solutions are possible.







Rom is a secret number.

Clue 1

Rom is in this arrow picture.



Fill in the box for each arrow.



Nabu's Packing Jobs

Nabu receives 79 boxes of Superspace electronic games and each box holds 16 games.

How many games does Nabu receive altogether? _____ games In the space below, record any calculations that you do to find the answer.

Nabu's employer wants the games put into smaller boxes that hold only 9 games each, a more popular order size.

How many of the smaller size boxes will Nabu be able to fill? _____ boxes

How many games will be left over? _____ games In the space below, record any calculations that you do to find the answer.





Use the arrow picture above to help you do these calculations.



The boxes shown below are made from small cubes like these.



How many small cubes does it take to make each box?







Val is a secret number.

Clue 1

Val is the ending number of a road starting at 2.1 and using exactly one red arrow and two blue arrows.



Put each number on the display of a calculator using only these keys:



Write the keys in the order you use them. You may use a key more than once.



Fill in the boxes for the arrows and label the dots.



Milo is a secret number.

Clue 1

Milo is in this arrow picture.



Locate these numbers on the number line.



Draw all of the missing red arrows between these dots.



In each row, show how many coins are needed to make exactly \$1.00. Use exactly the number of coins at the left. The first row is done for you.

Number of coins	Half-dollar .50	Quarter .25	Dime .10	Nickel .05	Penny .01
3		2	0	0	0
4					
6					
12					
20					
43					

Find the number of Garden Club members that are in each region of the string picture and record these numbers in the boxes.

There are 48 members in the Garden Club. Two-thirds of the club members have a rose garden. One-half of the club members have a vegetable garden. Seven club members have neither a rose garden nor a vegetable garden.



Put a one-digit number in each box to make the calculations correct.



60 is the smallest number in each arrow picture. Label the dots.



Eks is a secret number.

Clue 1







Clue 2

Eks can be put on this Minicomputer with exactly these two checkers.



Eks can be written by adding parentheses to this expression.

$4 \times (0.2 + (0.5 \div 2))$



Write a name for each number using exactly four 7s and no other digits. You may use the following symbols as often as you wish.

+ - () × \div

The number 9 is done for you.

