Variety of Problems #1

Label the dots.

56 and 58 are in this picture. Circle their dots.



Fill in the boxes.



Put these numbers correctly in this string picture.



Put these numbers correctly in this string picture.



Kwat is a secret number.



Kwat is in this arrow picture.



Clue 2

Kwat can be put on this Minicomputer with exactly one (9)-checker.



Who is Kwat? _____

For each picture, circle the statement you think is true about the length of the two black segments. Do not measure them.



Klik is a secret number.

Clue 1

Klik is one of these numbers on the Minicomputer.



Clue 2

Klik is in this string picture.



Label the red arrows.



Draw three +18 arrows in red in this picture.



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



Put each number on the Minicomputer using exactly two of these checkers:



Zoe is a secret number.



Zoe can be put on this Minicomputer by adding one negative checker.



Complete.











Use your answers on page 12 to complete this table. Ask your teacher to check the numbers in your table before you finish the page.

Number of rows	1	2	3	4	5
Number of dots					?
Number of small triangles					?

Look for number patterns in this table.

Use a pattern to predict the number of dots in a figure with 5 rows. _____

Use a pattern to predict the number of small triangles in a figure with 5 rows. _____

Use this picture to check your predictions.



Number of dots _____ Was your prediction correct? _____ Number of small triangles ____ Was your prediction correct? _____

Add.	Subtract.
654	321
+168	<u>-153</u>
Multiply.	Subtract.
156 × 4	25.7 – 18
Add. 96.36 + 107.5	Multiply. 89 ×12

The red label is one of these:



The blue label is one of these:



Label the strings.



Label the dots. Fill in the box for the blue arrows.





Write >, =, or < in each box to make a true statement.



How many piec region? Into the blue re	ces of this size [_ egion?	fit in	to the red

How many pieces of this size _____ fit into the red region? _____

Into the blue region? _____

Put these numbers in the blanks so that the paragraph makes sense.



Zip is a secret number.

Clue 1

One of the symbols +, -, or x belongs in each blank box of the calculator sentence. A symbol may be used more than once.



Zip could be _____, ____, ____, ____, ____, ____, ____, ____,

Clue 2

Zip is a positive prime number.





Complete the tables.

Duf	Puf
36	
100	
28	
6	
	36
	6

Duf	Puf
32	
320	
3 200	
	63
	630
	6 300

This string has one of these labels: **Positive divisors of 20** or **Multiples of 5**.



Draw a circle around each number below that you know for sure belongs inside the red string.

Draw a triangle around each number below that you know for sure belongs outside the red string.



Some of the numbers should have neither a circle nor a triangle around them because we can't tell where they belong.

Pin and Pan are secret numbers in this arrow picture.



Put each number on the Minicomputer using exactly one negative checker \odot and exactly one of these checkers:



Label the dots. Many solutions are possible.



Raul has 60 tickets. Each ticket is worth either one point or two points. He has a total of 83 points. Explain.

Lori has \$4.10 in dimes and quarters. She has one more quarter than dimes. Explain.

Tim is a secret number.



 $\hat{8}$ is the only even negative number in this picture. Circle the dot for $\hat{8}$. Label all of the dots.





Reggie invites Angela to play this game: Roll the two pyramids and add the results. Reggie wins if the sum is even. Angela wins if the sum is odd. Is this a fair game? Explain. Label the dots. Fill in the blanks.



53 and 84 are in this arrow picture. Label their dots.



 $\widehat{\mathbf{5}}$ and 13 are in this arrow picture. Label their dots.



Crack is a secret number.

