Galaxy of Problems #3

Build an arrow road from 53 to 19 using -10 and -1 arrows. Fill in the box for the gray arrow.



Write a calculation shown by the gray arrow.

Color one-third of each shape.



Complete.



Fill in the box for each arrow.



Complete.



Label the dots. Draw all the missing +4 arrows in gray.



There should be nine gray arrows.

Zap is a secret number.

Zap can be put on this Minicomputer by removing one checker.



Zap is in this string picture.



Share 38 cards fairly between Tony and Juan.

For Tony	For Juan

Write a number sentence about this sharing.

Share 42 bows fairly among Linda, Yvette, and Erin.

For Linda	For Yvette	For Erin

Write a number sentence about this sharing.



Complete.

Label the dots and complete the multiplication facts.





Label the dots in this string picture. Many solutions are possible.



Several children gave estimates of how many pennies were in a jar. Here are their estimates.

	Estimate
Gus	300
Jamaal	268
Laura	331
Carly	350
Ivan	275



After counting, the children found there were exactly 316 pennies in the jar.

Who had the closest estimate? _____

How close was each child to the actual number of pennies?

Gus	
Jamaal	
Laura	
Carly	
Ivan	

Build an arrow road from 6 to 60 using 2x and +1 arrows. Try to use as few arrows as possible.



2× +|



Connect the dots with a zigzag path, but do not go through the building. Try to make your zigzag path shorter than 20 cm.



Length of zigzag path = _____ cm Is the length of your zigzag path less than 20 cm? _____



What number is on the Minicomputer?



Color one-half of each shape red. In each case, write another name for $\frac{1}{2}$ as suggested by the picture.



A gremlin wrote too many numbers in these problems. Cross out one number in each problem to make the addition correct.



184	246	527
435	236	487
+245	+326	+387
429	562	914

Build an arrow road from 9 to 109. Try to use as few arrows as possible.

|0× +| -|

9



Dana buys two models and spends exactly \$3. Draw one string around the prices of these two models.



Alex buys two kits and spends exactly \$4. Draw one string around the prices of these two kits.



Ten number friends—0, 1, 2, 3, 4, 5, 6, 7, 8, 9—are playing the \oplus 9 game. Put these numbers in the picture.



Complete these number sentences about addition with the ten number friends.



Jon wants to weigh his dog Trapper, but Trapper won't stand still on the scale. Jon gets on the scale holding Trapper. Together they weigh 192 pounds. Jon weighs 118 pounds. How much does Trapper weigh?

Ellen has 50 jellybeans. She gives 5 jellybeans to each of her 3 friends. How many jellybeans does Ellen have left?

Will works for seven hours. Each hour he earns \$5.00 and each hour he spends \$1.00. How much money does he get? _____

Alice went shopping. She spent half her money on lunch. Then she bought a hat for \$3.00. Now she has \$2.00. How much did Alice have to start with? _____ Put these numbers in this arrow picture.



Put parentheses in these number sentences to make them TRUE.

 $3 + 5 \times 4 = 23$ $3 \times 5 - 4 = \|$ $3 \times 5 + 4 = 19$ $3 + 5 \times 4 = 32$ $3 \times 4 + 5 = 27$ Find the area of each shape.



Color a shape that has area 21 cm².

4 cm ²			



Use the clues to find Lou's house. Write Lou's name next to a dot for his house.





Label the dots.



Put these numbers in the string picture.





What number is on the Minicomputer?



Put these numbers on the Minicomputer by moving exactly one of these checkers.



RED	YELLOW	GREEN	BLUE
NOT	NOT	NOT	NOT
RED	YELLOW	GREEN	BLUE
\bigcirc	\triangle		BIG
NOT	NOT	NOT	LITTLE

The red string is for one of these:

The blue string is for one of these:

RED	YELLOW	GREEN	BLUE
NOT	NOT	NOT	NOT
RED	YELLOW	GREEN	BLUE
\bigcirc	\triangle		BIG
NOT O	NOT	NOT	LITTLE

Label the strings.

