

MATH SUPERSTARS – 6

Uranus, X

Name: _____

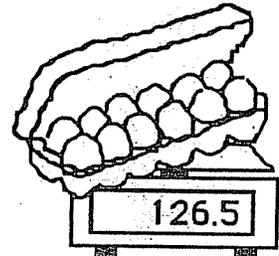
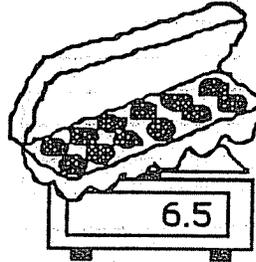
(This shows my own thinking.)

- ★ 1. Multiply 37 by 3. Now multiply 37 by 6. What would you have to multiply 37 by to get all fives?

Answer: _____

- ★★★★ 2. Solve each problem.

- a. A 12-pak of colas cost \$4.48, including tax of \$0.28. How much would each cola cost, without tax? _____
- b. Maria put 5 pups in a cage to send them on an airplane. The total weight was 90 pounds. The cage by itself was 25 pounds. On average, how much did each pup weigh? _____
- c. Garth gets to watch 15 hours of TV each week. There are only 5 hour-long shows he watches each week. How many half-hour shows can he watch? _____
- d. The scale shows grams. How much does one egg weigh?
_____ grams



- ★★★ 3. Place the numbers 1 to 16 in the grid so that each row, column and diagonal will have a sum of 34. Some numbers have been placed for you.

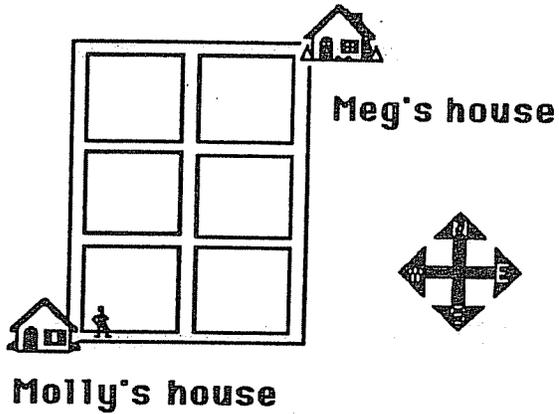
Use each number only once.

		3	
	11	10	
9			12
		15	1

- ★★ 4. If a 27 in^3 jar of peanut butter holds 16 ounces, how much peanut butter is in a jar that is 67.5 in^3 in volume?

Answer: _____ ounces

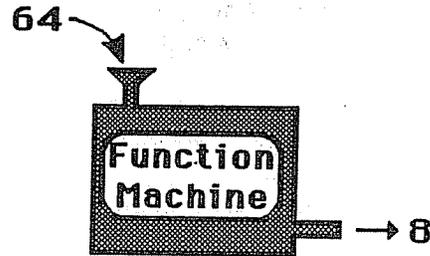
- ★★★ 5. Molly and Meg are good friends who like to visit each other often. The map below shows the location of the two girls' houses. Molly decided to find all the different ways to get to Meg's house from hers. She can move only in the direction of east and north. How many different routes are there for Meg to use?



Answer: _____ routes

- ★★ 6. The function machine below shows what happens to a number dropped in the input place. Fill in the two missing output numbers, when 49 and 81 are dropped in.

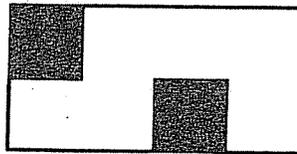
INPUT	OUTPUT
64	8
36	6
4	2
100	10
49	
81	



- ★★★ 7. In sixteen more minutes it will be as many minutes before 3 P.M. as it was after 2 P.M. ten minutes ago. What time is it?

Answer: _____

- ★★ 8. Estimate the percent of the figure that is shaded.



Answer: _____