

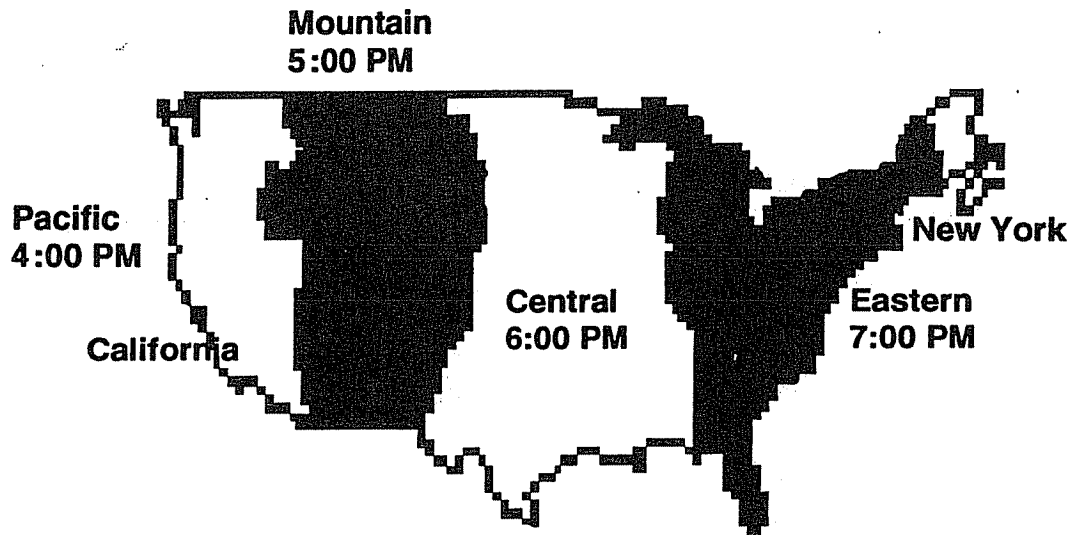
# MATH SUPERSTARS – 6

## Uranus, I

Name: \_\_\_\_\_

(This shows my own thinking.)

- ★★ 1. The map below shows the four time zones in the United States. Use the map to help you answer the following questions.



- a. If it is 11:00 A.M. in California, what time is it in New York?

Answer: \_\_\_\_\_

- b. If you left San Francisco, California, at 10:30 P.M. on a six hour flight to Miami, what time would it be in Miami when you landed?

Answer: \_\_\_\_\_

- ★ 2. Rusty can cut a log into 3 pieces in 20 minutes. At that rate, how long will it take him to cut another such log into 6 pieces?

Answer: \_\_\_\_\_

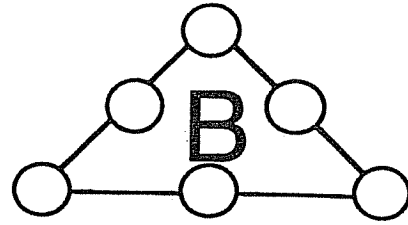
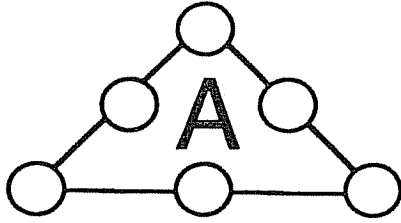
- ★★★ 3. Find three prime numbers, all less than 30, whose product is 1955.

Answer: \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_

- ★★ 4. One way to write 99 using four nines is  $(9 \times 9) + (9 + 9)$ ; another way is  $99 + (9+9)$ . Write 100 using four nines.

Answer: \_\_\_\_\_

- ★★★★ 5. Put the numbers 1, 2, 3, 4, 5, and 6 in the circles below so that the sum "along a line" is 11 in figure A, and 12 in figure B.



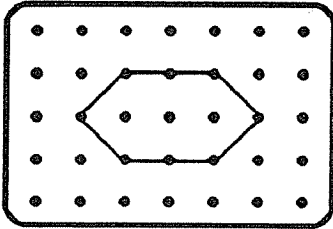
- ★★ 6. A train that is 1 mile long starts through a tunnel that is also 1 mile long. The train is traveling 15 miles per hour. How long does it take for the train to get completely out of the tunnel?

Answer: \_\_\_\_\_



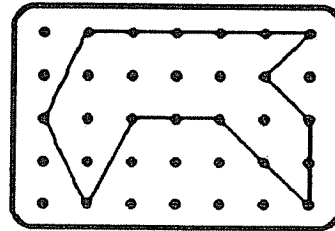
- ★★★★ 7. Find the area of each polygon.

a.



Answer: \_\_\_\_\_ square units

b.



Answer: \_\_\_\_\_ square units

- ★★ 8. An equation for the situation to the right is:

$$2D + 25 + 5 + 1 = 61.$$

Solve the equation by finding how much one duck weighs.

Answer:  $D =$  \_\_\_\_\_

